Good and Beautiful

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Read to the child: Look at box \#1 below. Point to the ones column and tell me how many one blocks are in it. [2] Write " 2 " in the green box. A ten stick is a stick with 10 blocks. Point to the tens column and tell me how many ten sticks are in it. [1] Write " 1 " in the blue box. A hundred square is made of 10 ten sticks, and 10 ten sticks equal a hundred square. Point to the hundreds column and tell me how many hundred squares are in it. [1] Write " 1 " in the red box. Look in the black box. When we put all the digits together, what is the number? [112] For each box below, do the same thing you did for the first box, but also write the final number in the black box.



O Read to the child: Look how we can put each digit in the number 843 in its place value column.

843

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| 8 | 4 | 3 |

For each number write how many of each base-10 item is needed to make the number.

> 921


218


567


O Read to the child: In this lesson and a future lesson, we will be reading about Ebony, whose family owns a small butterfly farm. Her family raises butterflies and sells them to museums and zoos. Here's a picture of Ebony walking through her family's butterfly farm. She woke up early in the morning, and the farm was quiet and cool. When it is cool, butterflies rest and are often hidden in the bushes. Ebony looked around and counted 134 butterflies. Have the child write " 134 " on the whiteboard. What digit is in the ones place? [4] Tens place? [3] Hundreds place? [1]


Six hours later, when it was warmer, Ebony counted all the butterflies she could see. This time she counted 342 . Have the child write " 342 " on the whiteboard. What digit is in the ones place? [2] Tens place? [4] Hundreds place? [3]


O Read to the child: Look at the picture of a flock of birds. Without counting the birds, would you guess that there are 16 or 163 birds in this picture?


- Read to the child: Many types of birds fly in flocks of hundreds. Today, we are going to talk about numbers in the hundreds. First, let's count by 100s from 100 to 1,000 . Point to the numbers below as you count and notice how 10 hundreds equal 1,000 .
( Read to the child: A hundred square has 100 one blocks. Each blue ten stick has 10 one blocks. Each green block represents one. Write the


O Take the squares (with the stars on one side and numbers on the other side) from the math box ary't them in a bowl. Read to the child: We are grill vory, a game. We will each take 3 digits out of ${ }^{\text {tr }}$. 4 arrange them to make the greatest num'jers se. We will each read our number aloud, at $n^{5}$, utell me which number is greater. The persor, . che greater number wins that round. Play as many rounds as desired.

Fill in the missing numbers on the chart. $\because .0 . \mid N D E P E N D E N T$ REVIEW ....6

| 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 |
| 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 |
| 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 |
| 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 |
| 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 |
| 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1,000 |

Robins and other birds can fly in flocks of hundreds. Counting by 100 s from 100 to 1,000 , write the missing numbers on the birds.


Complete the addition problems.



Read to the child: If you look closely at the world outside, you will see the importance of numbers. They aren't hanging from the trees as a " 1 " or a " 5 " or an " 8 ," but they are there. God is the Master Mathematician, and we will study many of His divine patterns and math principles in this course.

Take a look at this flower. How many blue petals does it have? [2]
Let's suppose that you see a row of these Asiatic dayflowers along a path, and you want to count how many blue petals there are in total. It is easier to count by $2 s$ than to count each petal individually. Point to each flower as you count by 2 s to count all the blue petals on the path. In the blue box, write the total number of blue petals.


Different types of ladybugs have different numbers of spots. How many spots does the ladybug on this page have? [10]

This type of ladybug is pictured on the leaves below. If we wanted to know how many total spots there are on all the ladybugs, it would be easier and faster to count by 10s. Point to each ladybug as you count by 10 s. Write the total number of spots in the blue box.


How many petals does this purple periwinkle flower have? [5] If we wanted to know how many total periwinkle petals there are in this window box, it would be easier and faster to count by 5 s . Point to each flower as you count by 5 s . Write the total
 number of periwinkle petals in the blue box.


O Read to the child: Now that we have practiced skip counting, which we learned in Math 1, let's learn another number we can use to count quickly-50. Fifty is half of 100 . So when we count by 50 s, we go $50,100,150,200,250$, and so on. Can you see the pattern? After every hundred, we add 50 and then go to the next 100 . Count by 50 s aloud from 50 to 1,000 as the child listens, and then have the child do it with you twice. Help the child fill in the missing numbers on the chart. Then have the child point to the numbers and count by 50 s until he or she can count from 50 to 1,000 without looking at the chart.


O Have the child complete the addition problems. If needed, use the chart above. Show him or her how to skip count to figure out the problem.


O Have the child use the chart above to answer the following questions.


Math 2 Answer Key

4. As of 2021, many unpiloted rovers or orbiters have visited the planets below. Complete the problem below each planet. The planet with the largest answer has been visited the most. (Note: The answers do not reflect the total number of rovers or orbiters that have visited each planet.)

$\begin{array}{r}\text { Mercury } \\ 10 \\ -\quad 8 \\ \hline 2\end{array}$


Mars
3
$\begin{array}{r}+3 \\ \hline 6\end{array}$


Neptune
8
$-7$


Jupiter 7
$\begin{array}{r}-3 \\ \hline 4\end{array}$


Venus 1
+4
+5


Saturn 9
-6
-3
How many inches long is each toy rocket? Write the answers with number words (like "one" or "two," not " 1 " and " 2 ") in the blue boxes.



Read to the child: Matthew 6:19-20 says, "Lay not up for yourselves treasures upon earth. . . . But lay up for yourselves treasures in heaven." We should not set our hearts on money, but we can use money to do good things. Here is a story of how a town used money for good purposes.

Danny and his family lived in the beautiful valley shown on this page. One day their barn burned down, and his family didn't have enough money to build another one. Mr. Garcia, Danny's neighbor, wanted to help Danny's family get wood and paint for a new barn. Mr. Garcia arranged a town bake sale to help Danny's family. The town earned just enough money for Danny and his family to build a new barn. Let's count the money.

Take $5 \$ 1$ bills, $10 \$ 5$ bills, $9 \$ 10$ bills, $3 \$ 20$ bills, $5 \$ 50$ bills, and 9 $\$ 100$ bills from the math box and show the child the bills. Point out how to tell the difference between the bills. Put the bills into a pile and mix them all together.

First, we need to sort the money into like bills. Help the child sort the money with all the ones, fives, tens, twenties, fifties, and hundreds in their own piles. We use skip counting when we count the value of bills larger than one dollar. When counting with money, we begin with the largest bills. What are the largest bills? [hundreds] Have the child count the $\$ 100$ bills (saying "one hundred, two hundred, three hundred," etc.) and write the total in the blue box. Follow the same procedure to have the child count the rest of the bills and write the amounts in the boxes.

| Total Amount in Hundreds | $=\$ 900$ |
| ---: | :--- |
| Total Amount in Fifties | $=\$ 250$ |
| Total Amount in Twenties | $=\$ 160$ |
| Total Amount in Tens | $=\$ 90$ |
| Total Amount in Fives | $=\$ 950$ |
| Total Amount in Ones | $=\$ 75$ |

O Using the different bills, have the child make each dollar amount listed. Be sure the child starts by using the largest bill amount before using smaller bills.



Math 2 Answer Key

| Write the number words． | Write the missing letters for each number． |  | Cuntby 50 sto fillin the misising umbers． |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| thirteen |  |  | 50 | 100 | 150 | 200 |
| thirteen | 風品 | 風。 |  |  |  |  |
| fourteen |  |  | Count by 10 stofilli it the misising umbers． |  |  |  |
| fourteen |  |  | 30 | 40 | 50 | 60 |
| fifteen | 目品 <br> four teen |  |  |  |  |  |
| fifteen |  |  | Cunt by OOS Stofll in ite misising umbee |  |  |  |
| eleven |  |  | 200 | 300 | 400 | 500 |
| eleven |  |  |  |  |  |  |
| Complete the addition problems． |  |  |  |  |  |  |
| 34 | 5 | 7 | 4 |  | 7 | 8 |
| $+3+3$ | ＋ 4 | $+3$ | ＋ 3 | ＋ |  | ＋ 8 |
| $6 \quad 7$ | 9 | 10 | 7 |  | 14 | 16 |
| Complete the addition problems by | cunting by 50 sad then | adding 1. |  |  |  |  |
| $100+50+1=$ | 151 | $50+50+50+1=$ |  |  | 15 |  |
| － |  |  |  |  |  |  |



O Read to the child：Using tally marks is a way to record your counting．Point to the four tally marks．Here are four tally marks．Point to the five tally marks．The fifth tally mark is slanted across the four others like this．When we count groups of tally marks，we are counting by 5 s ．It saves time counting because we don＇t have to count every individual mark．To count the following group of tally marks，start with counting by 5 s until you reach the last group of 5 tally marks．Then count on，adding 2 more to that number．How many tally marks did you count？［42］

## 

－Take all the $\$ 1, \$ 5, \$ 10, \$ 20$ ，and $\$ 50$ bills from the math box．For each set of tally marks，have the child count them and then show you the equivalent amount in bills by using the fewest number of bills possible

## 

O Travel to the Moon Game：Give the child a rocket and the bills from the math box．Have the child place the rocket beside the bottom yellow box in the next column．To move up to each yellow box and eventually reach the moon，the child must count out bills to match the number of tally marks using the fewest number of bills．The child moves back one if he or she does not use the correct bills．Keep going until the moon is reached．





WH1 \＄20； $1 \$ 10 ; 4 \$ 1| | \mid$




Count by 50 s to fill in the missing numbers

Count by 10s to fill in the missing numbers.

Count by 100 s to fill in the missing numbers.

Complete the addition problems.

$$
\begin{array}{rrrrrr}
5 & 3 & 5 & 7 & 4 & 7 \\
+3 \\
\hline & +3 \\
\hline & +\frac{4}{9} & +\frac{9}{10} & \frac{+3}{7} & \frac{+7}{14} & +9 \\
\hline
\end{array}
$$

For each set of patterns, circle the picture that should come next.


Read to the child: Zero is worth nothing. We must use zero when a place has no value so the next digit will be in the correct place. Write " 506 " on the whiteboard. For example, if we took zero out of the number 506, we would get 56 , which is very different from 506 . Write " 56 " on the whiteboard
For each number, say the number aloud, and then write each digit in the correct place value column. Then tell me which place value (hundreds, tens, or ones) has a zero placeholder in it.

901

| mates | ${ }^{\text {rem }}$ | ${ }^{\text {amis }}$ |
| :---: | :---: | :---: |
| 9 | 0 | 1 |
| 780 |  |  |
| 7 | 8 | 0 |

780

| Hundedes <br> 9 | Tens <br> 0 | Ones <br> 1 |
| :---: | :---: | :---: |
| H80 |  |  |
| Hundereds <br> 7 | Tens <br> 8 | 0 |

O Read to the child: Do you remember Ebony from Lesson 1? Another way her family earns money is by having groups visit the farm. Yesterday, two different homeschool groups visited the farm. Let's figure out how many children total visited the farm yesterday. I will tell you the numbers, and you write a problem on the whiteboard. The first group had 24 people, and the second group had 33 people. The child should have written ${ }^{24}$. Each number in this problem has two digits.

Let's complete it. When you add numbers with more than one digit, start in the ones place (the right-hand side). First, you will add 4 + 3 and write the answer below the numbers. Next, you move to the tens column, add $2+3$, and write the answer below the numbers. [57]

One child who loves to draw created a chart to keep track of how many types of butterflies he found. You can see his chart on the next page. Look at the chart on the next page and use it to answer the questions I will ask you. Remember to always start in the ones place (the right-hand side) when solving addition problems with more than one digit.
Read to the child the text in the boxes and have him or her write the problems on the whiteboard.

| How many orange tips and small coppers did he see? | $\begin{array}{r} 12 \\ +\quad 15 \end{array}$ | How many small coppers and peacocks did he see? | $\begin{array}{r} 15 \\ +\quad 21 \end{array}$ |
| :---: | :---: | :---: | :---: |


| How many tiger milkweeds |  |  |
| :--- | :--- | :--- |
| and peacocks did he see? | 17 <br> +21 <br> 38 | How many orange tips and |
| tiger milkweeds did he see? $+\frac{17}{29}$ |  |  |

O Read to the child: When adding the tens place in a two-digit addition problem, the sum may equal a number greater than 9 . If the sum has two digits, we write both digits under the equal bar. Write both digits under the horizontal line, as shown in the problem in green. What number is in the hundreds place? [1] What place value is zero a placeholder for? [tens] Complete the problems on the next page.

$\underbrace{23}$



Read to the child: When subtracting two numbers, you can use various strategies to find the difference. One strategy is to count up from the lower number to the higher number. Practice this strategy by using the problems and number line below. To complete $10-5$, we start at the 5 on the number line and count up by ones until we reach the 10. Let's count together. Point to the 5 . Move up the number line, counting aloud as you reach each number. $1,2,3,4,5$. What is $10-5$ ? [5] Have the child complete the problems below using this strategy.

$$
10-8=2 \quad 4-2=29-6=3
$$

## -(1)-(2) (3)-(4)-(5)-(6)-(7)-(8)-(9)-(10)

O Give the child the helicopter from the math box. Read to the child: I will read a problem aloud. You place the helicopter on the landing pad with the correct answer below. Use the strategy of counting from one higher than the lower number up to the higher number ( $9-3,7-6,8-2,6-$ 1,3-1).


Helicopter Landing Game: Take the 10 -sided dice from the math box and take turns rolling the dice and subtracting the number you rolled from the number 12. If the difference is listed on one of the landing pads below, write your initials to show you have won that landing pad. The person at the end of the game who has won the most landing pads wins the game!




Math 2 Answer Key


O Read to the child: Another subtraction strategy is to count down from the higher number to the lower number. Practice this strategy using the problems and number line below. To complete $8-5$, we start at the 8 on the number line and count down by ones until we reach the 5. Let's count together. Point to the 8 . Move down the number line, counting aloud as you touch each number. $1,2,3$. What is $8-5$ ? [3] Have the child complete the problems below using this strategy.
$7-5=29-2=7 \quad 7-6=1$
$5-3=26-4=2-4-1=3$
-(1)-(2) (3)-(4)-(5)-(6)-(7)-(8)-(9)-(10)-

MATH $2=$ *
O Take any airplane from the math box and give it to the child. Read to the child: Your airplane is running out of fuel and needs to land! Beginning at "Start," make your way on the path through the clouds, completing the subtraction problems along the way using the counting down strategy or any strategy that works best for you. Say the answers aloud. For an extra challenge, you can track your time and then do it again to see if you get your airplane to the fuel faster! Hint: Using fingers to count when learning subtraction and addition is completely fine.

${ }^{27}$


Clue I: The orange star is next to both the purple star and the red star.

Clue 2: The purple star is to the left of the orange star.


Take the stars from the math box and follow the clues to place the stars on the boxes in the right places.

Use I yellow star, I dark-green star, and I brown star.


Clue I: The dark-green star is to the left of the brown star.

Clue 2: The yellow star is to the right of the brown star.
On the right side of the pegboard, copy the lines from the left side.

Count by 50 s to fill in the missing numbers.

| 100 | 150 | 200 | 250 | 300 |
| :--- | :--- | :--- | :--- | :--- |

Count by 10 s to fill in the missing numbers.

Count by 100 s to fill in the missing numbers.

29


Quarters are worth 25 cents, which is a quarter of a dollar. This means that four quarters are worth one dollar, which is 100 cents. Let's count to 225 by 25 s by counting these quarters:


Have the child point to each box and count aloud by 25 s. In the blank
boxes, the child should figure out the number to say. Repeat the activity
if desired.

| 25 | 50 | 75 | 100 | 125 | 150 | 175 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 225 | 250 | 275 | 300 | 325 | 350 | 375 |
| 425 | 450 | 475 | 500 | 525 | 550 | 575 |

up to the Clouds Activity: Take an airplane from the math box and give it to the child. Read to the child: Let's practice counting by 25 s using this airplane. Place your airplane on the cloud labeled 25. Fly your airplane to each cloud, counting by 25 s aloud. Repeat this activity as many times as desired.



Math 2 Answer Key

Read to the child: Let's practice telling time to the 5 minutes. Every time we jump from one number to the next on a clock, we jump 5 minutes. Give the child the clock from the math box. Let's start at 3:00 and count by five minutes from 3:00 to 4:00. I will say the time, and you move the clock to that time: 3:00, 3:05, 3:10, 3:15, 3:20, 3:25, 3:30, 3:35, 3:40, 3:45, 3:50, 3:55, 4:00. Great job!
Now, let me show you a helpful trick. Move the clock hands to 5:35. If I want to find out what time it is, I don't have to count by 5 s starting at the 12 . I know that the 6 is always 30 minutes after the hour, so I can just start with 30 and then count by 5 s . I only have to jump 5 more minutes.

Thirty plus 5 is 35 , so it is $5: 35$. You try using this trick. I will set the clock, and you figure out the time by starting at 30 minutes after the hour and then counting by 5 s . Set the clock to the following times and have the child tell you each time: $3: 50,4: 40,5: 55$.
(Read to the child: Ethan and his dad sat on a hillside watching a hot-air balloon festival. They loved seeing the huge, brightly colored balloons float up into the sky, and soon the sky was dotted with color. Below are clocks that show the time that each hot-air balloon took off. I will tell you a time, and you point to the hot-air balloon by the clock that shows the time I say.


Draw the hands on the clocks to show the time that each balloon took off. Remember that the short hand moves closer to the next number as the hour goes by.




O Read to the child: Today we will subtract two-digit numbers! We will start on the right side with the ones column, subtracting the bettom disit from the top digit. Point the ones column of the subtraction problem in green and then complete the problem.

21

O Read to the child: When adding numbers together, the order in which we add the number DOES NOT matter. Look at these two addition problems. The same numbers are being added together but in different orders. Complete each $+\frac{23}{68}+\frac{45}{68}$ problem to see if you get the same answer.

When subtracting numbers, the order in which we subtract the numbers DOES matter. We can see how this is true with a subtraction story problem. If an airplane has 12 seats, but you sit in 1 of them, how many seats are left? To figure it out, we write this equation. Write "12-1=11" on the whiteboard. Can we reverse that to " $1-12$ " and have it make sense? No! Let's review: When we do addition, does the order of the numbers matter? [ $n o$ ] When we do subtraction, does the order of the numbers matter? [yes]

- Airplane Hangars Game: Take out the numbered squares 1-8 and an airplane from the math box. Place the squares in a row in front of the child, with the star side showing on top. To play the game, have the child follow and repeat these steps: 1) Land the airplane on a hangar of the child's choice. 2) Choose a star and turn over the square to show the number. 3) Complete the subtraction problems
and find the problem that matches the number on the square. 4) If the difference matches the number shown on the chosen hangar, the child wins that hangar and circles it. Play a few rounds. Explain that this game is a game of chance and not strategy.





| February 1899 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 |  |  |  |  |

- What is today's date? [February 8,1899 ]
- What is tomorrow's date? [February 9, 1899]
- One week from today? [February 15,1899 ]
- Two weeks from today? [February 22, 1899]
- Three days from today? (February 11, 1899]

O Read to the child:

- What day of the week is the last day of February 1899? [Tuesday]
- After the last day of February, what month is it? [March]
- Since Tuesday was the last day of February, what day of the week will be the first day of March? [Wednesday]
- Write the first three days of March on the second calendar

| March 1899 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |  |

- Write the last week of March on the second calendar.
- What day of the week does March 1899 end on? [Friday] What day of the week will April 1, 1899, be? [Saturday]
- What is the date circled in green on the March calendar? [March 8, 1899]
- What is the date two weeks from March 8, 1899? [March 22, 1899]

O Read to the child: Write the number of days each month below has in a non-leap year.




Read to the child: The addition problem below each apple tree shows how many apples are on each tree. It would be a lot faster to calculate how many apples are on the tree by doing a doubles addition plus one problem than to count all the individual apples. Let's play a game called "That's My Apple Tree."

1. On a piece of paper, you write down one of these numbers in purple and don't let me see it: $3,7,9,1 \mid, 13,15,17,19$.
2. I will point to a doubles addition plus one problem, and you complete it aloud. If the answer does not match the number you wrote down, I will point to another problem. If the answer matches the number you wrote down, say, "That's my apple tree!" The game is over when I find your apple tree. Repeat the game as many times as desired.


$$
8+917
$$


$7+815$
$3+47$


$5+6$ II
$4+59$



$6+713$
|44
§2.... INDEPENDENT REVIEW ....© Using the January calendar, answer the questions below.

| January 2024 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\frac{\operatorname{lacdov}}{1}$ | $2$ | $3$ | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | (16) | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |  |  |  |

1. Write the date that is circled in green.

January 16, 2024
2. Write the date one week from the date circled in green.

January 23, 2024
3. Circle the day of the week February 1 will be.

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Circle the number of base-10 items needed to represent each number.


Write a number that has these things:

- 9 in the ones place
- 3 in the tens place
- 1 in the hundreds place

139

Write a number that has these things:

- 2 in the ones place
- 8 in the tens place
- 5 in the hundreds place

582


O Read to the child: When referring to passing time, we often use the phrases "half hour" and "half past." For example, your mother might ask you to come home in a half hour or to be home at half past 6 . How many minutes are in one hour? [60] How many minutes are in a half hour? [30] Half past 6 is the same thing as $6: 30$. Half past 1 is the same thing as $1: 30$. Circle the clocks that show half past the hour.


O Read to the child: Let's review the quarters of the clock. Write 00 , 15,30 , and 45 in the orange squares; this is skip counting by 15 s . What number is the minute hand on when it is 45 minutes past the hour? [9] What number is the minute hand on when it is 15 minutes past the hour, or a quarter after the hour? [3] What number is the minute hand on when it is 30 minutes past the hour, or half past the hour? [6]


Math 2 Answer Key need. Draw the hands on the clock to show the time of each event.


Math 2 Answer Key



- Read to the child: Ordinal numbers refer to the position of objects rather than their amount. For example, "3rd" is an ordinal number. The number 3 means 3 items, but 3rd means something in the 3rd position. Write the ordinal position for the horses and riders in the race below like this: lIst, 2nd, 3rd, 4th, 5th.


O Read to the child: Although you don't often hear about the people in a competition who get 6th place or greater, all numbers have an ordinal position. Practice saying the ordinal numbers for fth through 12th. [6th, 7th, 8th, 9th, 10th, 11th, 12 th] Practice writing the ordinal numbers for 6th through 12th by copying them in the blank spots on the chart.

| 6 th | 7 th | 8 th | 9th | 10th | 11th | 12th |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 th | 7 th | 8 th | $9+h$ | $10+h$ | 11 th | 12 th |

( Read to the child: You get to be the horse racer and decide which horse you think will be the fastest of this group. Write 7th on the fastest horse in this group and continue through 12th


Read to the child: Look at the race times below. Circle the horse that crossed the finish line in the fastest amount of time and draw a line from the horse to its ordinal position. The fastest time is in first place and so on.


Circle the time shown on
Complete each problem.


Write your birthday by including the month, day, and year

## * Answers will vary.

Write one of your parents' phone numbers in this format: 429-555-4588.

Answers will vary.
each clock.

half past 2 5:10 $2: 25$



Read to the child, pointing to the pictures you are explaining: Diego loves birds, especially the brown wrens that often visit his yard. He put a pile of seeds on two sides of his picnic table. One pile had 20 seeds, and the other had 5 seeds. He watched as a brown wren landed between the two piles of seeds and ate from the larger pile.


Notice how the bird's open beak looks like a greater than symbol: Think of the greater than and less than symbols like a bird's beak that is always going to open up to the greater number of seeds. Point to the symbols as I say their names in order: greater than, less than, equal, not equal.

$$
\rangle\langle=\neq
$$

Have the child place a greater than, less than, or equal sign in each circle.


州IIII= 形IIII


O Have the child place an equal or not equal sign in each circle


## HNIII $\neq$ ․ㅔ III



Math 2 Answer Key
2



O Read to the child: When looking at or creating patterns, we can write letters to name the pattern: $A B A, A B B A$, etc. Each letter represents a unique color or shape. Let's suppose you are helping build a brick wall. You need to determine the pattern so that you can continue it. Write the letters below each pattern, and then write the pattern rule in the purple box at the end. For example, this pattern shows AAB. A is the light brown brick, and $B$ is the dark brown brick. The pattern $A A B$ keeps repeating.


Read to the child: Imagine you are laying tile and you need to identify the right pattern. Write $\mathrm{A}, \mathrm{B}$, or C below each tile in the pattern. Remember, each unique tile has a different letter. Tiles that are the same have the same letter. After writing each label, write the letter pattern in the purple box at the end.

## 



O Have the child create the following patterns down the vertical columns using colors or shapes.



Math 2 Answer Key



Math 2 Answer Key



Math 2 Answer Key


- At midnight, which is 12 AM , Eric has already been asleep for 3 hours.
- At 1 AM and 2 AM , Eric is still asleep and is sleeping so soundly that he doesn't even hear the rainstorm that has started. It is very early in the morning.
- At 3 AM, 4 AM, and 5 AM, Eric is still sound asleep. It is very early in the morning.
- At 6 AM it is still mainly dark; the sun is just barely starting to rise, and the rainstorm has passed.
- At 7 AM rays of morning sun are shining through Eric's window. He wakes up and says his morning prayers.
- At 8 AM Eric eats breakfast with his family and then does chores. It is morning.
- From 9 AM to 11 AM, Eric studies. It is still morning.
- At 12 PM, or noon, Eric eats lunch. It is no longer morning; it is afternoon. Move to the bottom clock.
- From 1 PM to 3 PM in the afternoon, Eric practices handwriting, typing, and playing the flute.
- From 3 PM to 5 PM, Eric plays outside with his sister and a neighbor friend. It is still afternoon.
- At 5 PM Eric does chores. It is now evening, and the sun is sinking lower and lower in the sky.
- At 6 PM Eric has dinner. It is evening, and the sun is starting to set.
- From 7 PM to 8 PM, Eric reads. It is still evening.
- At 9 PM Eric goes to bed. It is now night. He snuggles up under his warm quilt and listens to music as he falls asleep.
- At 10 PM and 11 PM, Eric is still asleep. At 12, it is no longer PM. It is now 12 AM, or midnight.
i O For each clock, have the child write the time shown on the clock, including the AM/PM.


| \%2... INOEPENDENT REVUEW ....e |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | twelve |  |  |  | 47 | 83 | 68 |  |
| 13 | thirteen |  |  |  | $\frac{-23}{24}$ | $\frac{-51}{32}$ | $\frac{-33}{35}$ | $\frac{-43}{36}$ |
| 14 | fourteen |  |  |  |  |  |  |  |
|  | fifteen |  |  |  | 97 | 57 | 86 |  |
| 15 |  |  |  |  | -52 | -24 | -33 | -34 |
|  |  |  |  |  |  |  |  |  |
| 25 | 50 | 75 | 100 | 125 |  |  |  |  |
| Countussosofilm nememsisgrambes. |  |  |  |  |  |  |  |  |
| 3 | 6 | 9 | 12 | 15 | Mr. Wood also sold 10 loaves of his lovely <br> he sell in total? <br> (anry |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 200 | 250 | 300 | 350 | 400 | 50 | + 50 | 10 |  |



Math 2 Answer Key


Give the child the stars from the math box. Read to the child: The Clark family is camping in the beautiful mountains. For each section below, complete these steps:

1. Next to each star, read what activity the Clark family is doing.
2. Place the matching colored star in the section of the picture on the next page that illustrates the activity the family is doing in the description.
3. In the blank box, write the time listed in the description. Be sure to include AM or PM.




Math 2 Answer Key


O Get a timer or pull up a timer on your phone. Read to the child: There are 60 seconds in a minute. Let's watch a minute go by on the timer and count with it. Count with a timer for a minute. That was one minute. An hour has 60 minutes in it. So, if we sat here and watched a minute go by 60 times, that is how long an hour would take. One day has 24 hours. Look at the picture of the castle garden on the next page. I will tell you about an activity. You will point to the place on the picture where the activity would take place and tell me if it would be more likely to take 2 seconds, 2 minutes, or 2 hours.

- Cut four roses from a rose bush. 2 minutes
- Throw one handful of seeds to the birds. 2 seconds
- Trim all the rose bushes. 2 hours
- Run through the maze. 2 minutes
- Sit on the bench and read a long book. 2 hours
- Have a picnic on the grass and play a long board game. 2 hours
- Put all the food back into the picnic basket and fold the blanket. 2 minutes

Read to the child: Write the correct number on the crown to complete the problem. Then say the phrase aloud. [1 hour equals 60 minutes, etc.]


O Read to the child: How many hours are in one day? [24] Let's suppose you stay at the castle for 2 days. Write and complete a problem to find out how many hours you will spend in the castle in total.


- Throw a penny into the fountain. 2 seconds
- Sing one song to the birds. 2 minutes
- Paint a detailed picture of the castle gardens. 2 hours


| 州州IIII | fourteen |
| :---: | :---: |
| 州州州 | fifteen |
| 州州III | thirteen |
| 州州II | twelve |



| 58 | 74 | 57 | 97 | 64 | 42 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| -23 |  |  |  |  |  |
| 35 | +51 | $\frac{-33}{125}$ | $\frac{-43}{24}$ | +43 | +56 |
| 97 | 67 | 56 | 78 | 93 | 99 |
| $+\frac{42}{139}$ | $\frac{-24}{43}$ | $\frac{+33}{89}$ | $\frac{-34}{44}$ | $\frac{+34}{127}$ | $\frac{-34}{65}$ |

Write the number of days each month has in a leap year．


Write the number that answers each question．



O Read to the child：Look at the top calendar on this page．Suppose that it is January 1917．The date circled in green is today．
－What date is it？［January 10，1917］
－What date is tomorrow？［January 11，1917］
－One week from today？［January 17，1917］
－Two weeks from today？［January 24，1917］
－Three days from today？［January 13，1917］
Read to the child：
－What day of the week is the last day of January 1917？［Wednesday］
－After the last day of January，what month is it？［February］
－Since Wednesday was the last day of January，what day of the week will be the first day of February？［Thursday］
－Write the first three days of February on the bottom calendar
－Write the last week of February on the calendar，remembering that February has only 28 days．（1917 was not a leap year．）
－What day of the week does February 1917 end on？［Wednesday］ What day of the week will March 1，1917，be？［Thursday］What is the date circled in green on the February calendar？［February 7，1917］

What is the date one month from February 7，1917？［March 7， 1917］

| January 1917 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |  |  |  |


| February 1917 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 |
| 10 |  |  |  |  |  |
| 11 | 12 | 13 | 14 | 15 | 16 |
| 18 | 19 | 20 | 21 | 22 | 23 |
| 25 | 26 | 27 | 28 |  |  |


MATH $2=\star$



Write the number that answers each question.

Read to the child: When we round, we replace a number with a number that is close in value but easier to add or subtract, like 0 or 10. As raindrops fall on an umbrella, they slide down whichever side they land on. We are going to use this idea to round numbers to the nearest ten. Look at the numbers on the left side of the umbrella. If the number is 1 to 4 , you round down to 0 . If the number is 5 to 9 , you round up to 10 . The number 5 is exactly halfway between 0 and 10 , so why does it round to 10 ? That is just the standard chosen so everyone can round the same way. I will say a number, and you point to it on the umbrella and slide your finger down to 0 or 10 and say, for example, " 6 rounds to 10 " or " 2 rounds to $0 . "$ Go through all the numbers in random order one or more times.


Math 2 Answer Key


Math 2 Answer Key


O Read to the child: Have you ever heard the phrase "a dozen doughnuts"? How many doughnuts do you have if you have a dozen? [12] Bakers especially use the phrase dozen and generally sell their tasty creations by the dozen or half dozen. If a dozen is 12 , how many is a half dozen? [6] Look at Betty's Bakery on the next page. It has displays of tasty treats. Circle in red the treat with a dozen items in its display and in green the treats with a half dozen items.

The blue boxes below have the total number of items Betty baked in one week. Write the number that is one less on the left and the number that


Read to the child: The baker has a customer who would like to order two dozen cookies. Write the amount in a dozen in each blue box to the right and add them together to find out how many are in two dozen.


Read to the child: The baker has baked a dozen loaves of bread and has sold two loaves. Use this information to create a problem in the boxes to the left and find out how many loaves she still has remaining.

Read to the child: Before the sun rises, at 5:00, the baker gets up and starts baking. She needs to have her tasty creations ready before the store opens at 10:00. Use this information to answer the following questions aloud.

- Did the baker begin baking at 5:00 AM or PM? [AM]
- Did the store open at 10:00 AM or PM? [AM]
- Do you think it is more likely that bread bakes for 1 minute or 1 hour? [1 hour]
- Is it more likely that it takes 1 minute or 1 hour to eat a cookie? [1 minute]
- The store closes at 8:00. Is it AM or PM? [PM]
- The busiest time at the bakery is lunchtime. Is it noon or midnight? [noon]



## Z＇SPELLING 12．13．14．AND 15／TALLY MARKS $\mathcal{E}$

With number words write the number of tally marks in each box

| 栦州III | thirteen |
| :---: | :---: |
| 为州II | twelve |
| 栦州IIII | fourteen |
| 为 W W W | fifteen |
| $\geq$ Additionol Proctice |  |
| aris and the nur |  |
| 12 为州II | twelve |
| 4 栦为IIII | fourteen |
| 3 H H W I III | thirteen |
| 5 栦州洲 | fifteen |

## BILLS

For each dollar amount shown，circle the bills you would use to equal the dollar amount．Use the fewest number of bills．（Hint：Circle the highest－value bills you can use first．）


## $>$ Additional Practice

For each dollar amount shown，circle the bills you would use to equal the dollar amount．Use the fewest number of bills．（Hint：Circle the highest－value bills you can use first．）

\＄185

－Jenny Phillips

## MATH 2＝＝

$\square$
Circle the number of base－10 items needed to represent each number．


Circle the number of base－10 items needed to represent each number．


## \% DOUBLES ADDITION PLUS ONE

Circle the problems that are doubles addition plus one problems and complete them.


Write the answers to the doubles addition plus one problems.


ADDING TWO-DIGIT NUMBERS WITH REGROUPING

Complete the problems.


## :........:.: $\square$ Additional Practice

Complete the problems. Remember to carry the 1


## SUBTRACTION WITH TWO-DIGIT NUMBERS

Complete the subtraction problems. Remember to start with the ones column.

| 45 | 97 |
| ---: | ---: | ---: |
| -23 |  |
| 22 | -43 |
| 54 | -35 |
| $\square$ | Additional Proctice |

Complete the subtraction problems.

| 65 | 99 | 87 |
| ---: | ---: | ---: |
| -43 | -43 | -45 |
| 22 | 56 | 42 |
| 78 | 49 | 96 |
| -46 | -23 | -53 |
| 32 | $\frac{-53}{26}$ |  |

\% CALENDAR WORK: PART 1 \%

Write the number of days each month has in a leap year.


Write the number of days each month has in a non-leap vear.


Write the answers.
How many days are in a week? 7
How many months are in a year? 12
How many days of the week are in a weekend?
Z. CALENDAR WORK: PART 2

1. Write the date circled in green.

April 16, 2024
2. Write the date one week after the date circled in green.

April 23, 2024

## - Additionol Proctice

Using the calendar above, complete the following.

1. Write the date one week before the date circled in green.

April 9, 2024
2. Write the date one day earlier than the date circled in green.

April 15, 2024

## \% TIME \%

Circle the time shown on each clock.

] Additional Practice
Write the time shown on each clock.


## \% Ordinal position \%

Color the fish that is in the given position, starting from the left



 $\sum \square$ Addition al Proctice

Color the lighthouse that is in the given position, starting from the left



Round each number to the nearest ten.

> (

$: \quad$ Addition al Practice
Round each number to the nearest ten.


## Z Greater than．Less than．equaľ

In each circle write the greater than，less than，or equal sign．


Draw a line between the coins in each group to divide the total value in half．

为州州II $<$ 为州州IIIII


In each circle write the greater than，less than，or equal sign．
$567>556 \quad 300=300$


๗
－Jenny Phillips


Math 2 Answer Key


Read to the child: To add 10 to a number, we increase the digit in the tens place by one. The number 784 is on the first chart. Point to the digit in the tens place. [8] In the next chart, write the sum of $784+10$ by increasing the digit in the tens place by one. [794]

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| 7 | 8 | 4 | | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 7 | 9 | 4 |

Read to the child: Add 10 to each number by increasing the digit in the tens place by one.

| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 4 | 3 | 6 | 5 | 3 |
| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
| 3 | 0 | 5 | 3 | 1 | 5 |
| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
|  | 2 | 9 |  | 3 | q |

Read to the child: To subtract 10 from a number, we decrease the digit in the tens place by one. Subtract 10 from each number by decreasing the digit in the tens place by one.

| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 7 | 1 | 5 | 6 | 1 |
| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
| 8 | 9 | 0 | 8 | 8 | $\bigcirc$ |

$\bigcirc$ Read to the child: To add 100 to a number, we increase the digit in the hundreds place by one. Add 100 to each number by increasing the digit in the hundreds place by one.

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| 4 | $\mathbf{2}$ | 9 | | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 5 | 2 | 9 |


| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| $\mathbf{2}$ | 8 | 6 | | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 3 | 8 | 6 |

Read to the child: To subtract 100 from a number, we decrease the digit in the hundreds place by one. Subtract 100 from each number by decreasing the digit in the hundreds place by one.

| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| 5 | 7 | 1 | | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 4 | 7 | 1 |


| Hundreds | Tens | Ones |
| :---: | :---: | :---: |
| 8 | 9 | 0 | | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 7 | 9 | $\bigcirc$ |




Complete the statements below by writing the number of coins on the right needed to equal the coins on the left.

2.o. INDEPENDENT REVIEW ․o.
Find the sums, and then write
the correct symbol in each circle:
greater than, less than, or equal.

Use this calendar to fill in the boxes below.

| April 2025 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Smader |  | 1 | 2 | 3 | 4 |
| 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 14 | 15 | 16 | 17 | 18 |
| 20 | 21 | 22 | 23 | 24 | 25 |
| 27 | 28 | 29 | 30 |  |  |

1. Write the date circled in green.

April I5, 2025
2. Write the date one week from the date circled in green.

April 22, 2025
3. Circle the day of the week that May 1st will be.
Sunday Monday Tuesday Wednesday
Thursday Friday Saturday

Read to the child: Let's talk about expanded form. Point to the number in orange and say the number. This way of showing a number is called standard form.
This is how we show 231 by place value with base-10 blocks.

[]

To write the expanded form, we would write out and add up all the place value amounts, like this:


First, we write the number of individual blocks in the hundred squares. Since we have two squares of one hundred blocks each, we can count by hundreds to see that there are 200 blocks. Then we add the number of individual blocks in the ten sticks. Since we have three sticks of ten, we can count by tens to see there are 30 blocks. Then we add the one block from the ones place. If we add $200+30+1$, what is the answer? [231: the standard form of the number]

Have the child write the standard form and then the expanded form for each set of base-10 blocks.


Have the child write the expanded form for each number.


Take a star from the math box and give it to the child. Read to the child: Owen and Jemma are going on their first hot-air balloon ride. Whose hot-air balloon will reach the top first?
On the next page, put your star at the bottom under Owen's balloon. I will time you as you race to the top. Write the expanded form of the number shown. Once you have written each number correctly, move your star up to the next line. I'll write the time it takes you to reach the top. Then do the same for Jemma's balloon, and we will see who reaches the top first.


Math 2 Answer Key



Read to the child: Certain things need to be done in a specific order, or they don't turn out the same. For example, you have to put on your socks and then your shoes. What would happen if you changed the order and put on your shoes first and then your socks?


However, with other things we do, the order does not matter. For example, it does not matter if you put on your left shoe or your right shoe first. The result will be the same.

When we add, the order we add the numbers does not matter. However, when subtract, the order matters a lot. Let's take a closer look.

Tell me the answers to these two addition problems: $2+1$ and $1+2$. Are the answers the same? Now, let's try subtraction. What is $2-1$ ? Let's reverse it. 1-2 is negative 1 , which is not the same number. We'll talk about negative numbers in a future math course.

Because it does not matter what order we add numbers, it works well to put the larger number on top like the problem in purple. Also notice how there is no digit under the 6 . This is because there are 0 tens in the number 2 .

Read to the child: To practice this concept, I am going to tell you some stories aloud, and on the whiteboard you write and complete a problem representing the story. In these addition problems, write the larger number on top, even if it does not come first in the story.

## Story Problem

On Tuesday, Teresa planted 3 trees before lunch and 24 trees after lunch. How many total trees did she plant on Tuesday?

| Story Problem | What <br> Yesterday the first roses bloomed-6 of <br> the Child | 31 <br> them. Today 31 more bloomed. How many <br> total roses have bloomed? |
| :--- | :--- | ---: |
| Should <br> Write | 37 |  |

〇 Read to the child as you point to the parts of the problems you are talking about: Addition and subtraction are opposite operations in math, so you can use one to check the answer of the other one. Look at the problems to the right. If I have $5+3=8$, I can complete the problem $8-3$ to check my work. The numbers in the green boxes should match. Try the problems in green below. The numbers in the green boxes will be the same if you do the problems correctly. Note: The child is not expected to master this concept until the end of the course.

## Check Your Addition Problems with Subtraction





Read to the child: The number 15 has two digits, a one and a five. The number 125 has three digits, a one, a two, and a five. When adding numbers with three or more digits, we will start with the ones and then move left. Write the sum below each column.


Read to the child: Complete the problems below, which add three-digit numbers with two-digit or one-digit numbers. If there is a blank spot, imagine it is a zero.


Read to the child: Now you have learned enough to add huge numbers. Here is a fact about a huge number. Mars is over 56 million miles away from us! Try adding these numbers, which are in the millions! Start with the ones column and then go left and continue moving to the next place value to the left until you have added all the digits.



Math 2 Answer Key


Math 2 Answer Key


Read to the child: Let's learn about adding dollars and cents. Look at the problem in the next column. Point to the green column. This column shows the number of pennies. We call it the hundredths place. It takes 100 pennies to make a dollar. Point to the blue column. This column shows the number of dimes. We call it the tenths place. It takes 10
dimes to make a dollar. Point to the decima point, which looks like a period. Decimal points mark the space between whole and partial amounts. When adding money, decimal points separate the whole dollars from the partial dollars (cents). Point to the purple column. This is the ones place (dollars).

Look at the first problem on the chalkboard. We need to add $\$ 3.31$ and $\$ 2.20$. Start with the hundredths place, then the tenths place, then the ones place. Write the decimal point in your answer right below the decimal points in the problem. Also add a dollar sign to the answer.

Complete all the problems on the chalkboard. Remember to include the decimal point and dollar sign in each answer.

${ }^{113}$

O Read to the child: Andrew wants to build a birdhouse, but he only has $\$ 6.30$ for materials. He needs to know which birdhouse he can build. For each birdhouse he needs wood, nails, paint, and a paintbrush. The price for wood, nails, and birdhouse one and two need different amounts of material.

Andrew has only enough money to build one of the birdhouses. Which one do you think it is? Let's find out if you are right. For each birdhouse first add the cost of the wood and nails. Then add the cost of the paint and paintbrush. Then add the sums (answers) of those two problems to find the total. If Andrew has $\$ 6.30$ to spend, which birdhouse can he build? One



## Birdhouses



Math 2 Answer Key


Complete the statements below by writing the number of coins on the right needed to equal the coins on the left.


| Practice Book <br> Eliza plays the piano. Write the missing information on her practice book. Make sure to include AM or PM. The first two are completed for you as examples. |  |  |  |
| :---: | :---: | :---: | :---: |
| d) Day of the Week | Length of Practice | Time Started | Time Ended |
| Monday | 30 minutes | 9:00 AM | 9:30 AM |
| Tuesday | 1 hour 30 minutes | 8:00 AM | 9:30 AM |
| () Wednesday | 2 hours | 1:OO PM | 3:00 PM |
| ( $\rightarrow$ Thursday | 30 minutes | 3:00 PM | 3:30 PM |
| ¢o Friday | 1 hour 30 minutes | 6:00 PM | 7:30 PM |
| Saturday | 30 minutes | 8:30 AM | $9: 00$ AM |
|  |  |  |  |
| ${ }^{120} \downarrow$ |  |  |  |



Math 2 Answer Key


- Read to the child: Do you remember what a fact family is? A fact family is a set of four math facts made with the same three numbers. The presents below have numbers on them that can be made into four different math facts. The first one is done for you. Fill in the rest.

$\bigcirc$ Read to the child: On the next column and following page, write the fact families on the houses by using the three numbers at the top to make four different math facts.





| 2. Day of the Week | Length of Practice | Time Started | Time Ended |
| :---: | :---: | :---: | :---: |
| $\quad$ Monday | 30 minutes | $10: 00 \mathrm{AM}$ | $10: 30 \mathrm{AM}$ |
| Tuesday | 1 hour 30 minutes | $7: 00 \mathrm{AM}$ | $8: 30 \mathrm{AM}$ |
| Wednesday | 2 hours | $8: 00 \mathrm{AM}$ | $10: 00 \mathrm{AM}$ |
|  | Thursday | 30 minutes | $10: 30 \mathrm{AM}$ |
|  | $11: 00 \mathrm{AM}$ |  |  |
|  | Friday | 1 hour 30 minutes | $4: 00 \mathrm{PM}$ |




- Write "sixteen," "seventeen," "eighteen," and "nineteen" on the whiteboard. Read to the child: Today, you are going to practice writing words for these numbers. Read them to me. You will notice for three of these words that you add "teen" at the end of the word, but for eighteen you only add "EEN," so you do not double the T in EIGHTEEN. Tell me aloud how to spell "teen." On the whiteboard write the number words for $16,17,18$, and 19 . You can reference the words I wrote if needed.

This morning Adelyn and her brother Levi collected wild pecans from the woods by their home. Each box below shows the start and end time and how many pecans they collected in their buckets. The siblings played a lot as well, so they didn't find many pecans, but, by the end of the morning, they had enough to make two pecan pies! For each time period, write the number of hours spent and the number word for the total pecans collected.



Math 2 Answer Key


Math 2 Answer Key


O Give the child a 12 -inch ruler. Read to the child: Point to the inch lines on the ruler. How many are there? Halfway between each inch is a half-inch line. Point to each half-inch line. How many halves are in a whole? [2] Half of 1 is one-half. Half an inch is written like this. Write " $\frac{1}{2}$ " on the whiteboard. With your ruler measure the line segments below and write the lengths in the blank boxes. Remember to start measuring the line segment at zero on the ruler.


O On a piece of scratch paper, have the child use the ruler to create a $2 \frac{1}{2}$-inch and a $3 \frac{1}{2}$-inch line segment.

O Read to the child: Tina owns a frame shop where she frames tiny paintings. Today she is working on framing some paintings by Vincent van Gogh, one of the most famous painters in history. He created about 2,100 works of art in his lifetime. Tina needs to measure the length and the height of each painting before she prepares the frames. Using your ruler, measure the length and height of each painting
$\qquad$
 and write the number of inches in the box. Use the abbreviation "in" or use the inch sign: ".





O Give the child a $30-\mathrm{cm}$ ruler. Read to the child: In the last lesson, you learned to measure in inches, which are used in the US customary system. The metric system uses centimeters to measure length. Point to the centimeter lines on the ruler. Halfway between each centimeter is the half-centimeter line. Point to each half-centimeter line. With your ruler measure the line segments below and write the lengths in the blank boxes. The abbreviation for centimeter is "cm."


O On a separate sheet of paper, have the child use the ruler to create a $10-\mathrm{cm}$ and a $12 \frac{1}{2}-\mathrm{cm}$ line segment.

O Read to the child: Today, Tina she is working on framing some paintings by Caspar David Friedrich. Tina needs to measure the length and the height of each painting before she prepares the frames. Using your ruler, measure the length and height of each painting and write the number of centimeters in the box. Remember to write " cm " for centimeter.



Math 2 Answer Key

$\stackrel{134}{ }$


O Read to the child: Today, we are going to practice telling time to the minute. On the clock on this page, point to the 12. There are four little tick marks (short lines) between the 12 and the 1. Point to each one and count them. The tick marks represent minutes. The first tick mark is one minute after the hour, the second tick is two minutes, the third tick is three minutes, the fourth tick is four minutes, and then we land on the large number one, which is five minutes after the hour.

Take the clock from the math box and give it to the child. Have the child show you the following times on the clock: 12:03, 3:02, 6:04, and 8:01.

Read to the child: When determining the time to the minute, you do not need to start at the 12 and count each tick mark. Set the clock to 11:32. For example, to figure out what time it is on this clock, we can go to the nearest 5 -minute increment before the minute hand and count from there. Point to the 6 on the clock. This would be 11:30. Let's count two more tick marks. Count with the child from 11:30 to 11:31 and then 11:32.

Set the clock to $2: 48$. Tell me what time the clock shows, starting at 45 minutes after the hour and counting up to the exact minutes. Set the clock to different times and have the child tell you the times shown on the clock.


O Have the child draw hands on the clock on this page to show 2:34.
O Take a star from the math box and give it to the child. Read to the child: Suppose that you are taking a walk through the scene shown on this page. Put the star on the earliest time, and then show me the time on the clock from the math box. Then move the star to the next spot and show me the time on the clock, and so on until the last time.



Math 2 Answer Key


138


Fly Down Through the Clouds!
O Read to the child: To play this game, we each need a whiteboard and dry-erase marker or we may share them. Please lay out the boxes we cut out; have the blank sides facing up. We will each choose a different cloud scene and put our airplane on "Start."

- You go first. Choose a box, turn it over, say the amount aloud, and write it on your whiteboard. Under that number, write a subtraction symbol and the number $\$ 3.34$, like the example shown here:
- Move your airplane to the cloud that shows the $\$ 5.67$ always subtract $\$ 3.34$ from the cards we choose. $\$ 3.34$ When all the boxes have been turned over, the player on the lowest cloud on the page is the winner

| ร.... Indepenoent review ...e. |  |  |  |
| :---: | :---: | :---: | :---: |
| This section is bank tor doubles sided cuting puposes |  | $3+2=5$ | $7+9=16$ |
|  |  | $8-5=3$ | $13-3=10$ |
|  |  | $7 \triangle+13$ | $10-4=6$ |
|  |  |  |  |
| \$1.75 | \$3.76 |  | - |
| + \$ $\$ .42$ | + \$5.23 |  |  |
| \$6.57 | \$8.9 9 |  |  |



Math 2 Answer Key


142

Point to each shape below and read the type of fraction (one-half, one-fourth, etc.). Read to the child: For each of the circles shaded with teal, follow these steps to write the fraction of circle that is shaded.

1. Below the line in the orange box, write the total number of equal parts shown on the circle.
2. Above the line in the orange box, write the number of parts shaded.


Point to each shape below and read the type of fraction (one-half, one-fourth, etc.). Read to the child: Repeat the steps above for the squares below.



O In the boxes below the cheese board, have the child write the fraction of each cheese wheel that is left.


Math 2 Answer Key



## Have the child complete the problems.



2.oo. INDEPENDENT REVIEW •oo. 6


For each of the shapes, follow these steps to write the fraction of the circle that is shaded.

1. Below the line in the orange box, write the total number of equal parts shown on the shape.
2. Above the line in the orange box, write the number of parts shaded.


Complete the addition problems. Don't forget to carry the 1s. Don't forget the dollar sign and decimal point in vour answer.
$\begin{array}{r}\$ 1.25 \\ +\$ 0.65 \\ \hline \$ 1.90\end{array}$
$\begin{array}{r}\$ 2.26 \\ +\$ 0.25 \\ \hline \$ 2.51\end{array}$
$\begin{array}{r}\$ 1.38 \\ +\$ 0.44 \\ \hline \$ 1.82\end{array}$



## Start the Lesson Here

O Read to the child: In addition problems the numbers you are adding together are called addends, and the sum is the answer. Write " $5+1+2=8$ " on the whiteboard. This problem has three addends. What are they? [ 5,1 , and 2] What is the sum? [8]

When you add three numbers or addends together, the order you add them in does not matter. This is the associative property. Choose two of the numbers and add them together. Then add the sum of the first two numbers to the third number. Write " 5 $+5+2=12^{\prime \prime}$ on the whiteboard. Let's look at this problem. I am going to add $5+5$ first. The sum is 10 . Then I add $10+2$, and the answer to the problem is 12 . Look at the addition problems in purple. When adding three numbers together, you can add the first two numbers in your mind, or you can write the sum of the first two numbers as shown.

$$
\overbrace{4+6}^{10}+2=\left\lvert\, 2 \frac{\left.{ }_{6}^{4}\right\} 10}{12}\right.
$$

Write these addition problems on the whiteboard and have the child complete them: $4+6+2=15+3+4=$.



〇 Take these items from the math box: 8 \$5 bills, $5 \$ 1$ bills, 3 quarters, 5 dimes, 4 nickels, 4 pennies. Read to the child: Today we will suppose you are at the pet store buying fish for a fish tank. Let's practice counting and writing money amounts first. I will hand you some bills and coins. You add them up and write the total in the boxes below. First, add the bills together. To do this, sort like bills and coins together before counting them. Add bills and then coins with the highest value first. When you write the amounts, make sure to include the dollar sign and write a decimal point after you write the amount of dollars. The amount of cents that is less than a dollar goes to the right of the decimal point. Give the child the bills and coins listed.
$1 \$ 5|2 \$| \mid 2$ quarters
2 dimes $\mid 2$ pennies
$\$ 7.72$
$185|481| 3$ quarters


Choose your four favorite fish from below that you would buy for your fish tank. I will give you the amount of money needed to buy the fish. You count the bills and coins and write the total amount in the boxes by the fish you chose.

| $6$ | \$18.36 | $\begin{gathered} 3.513 .8 \mid \\ \left.\left\lvert\, \begin{array}{c} \text { quarfere } \\ \text { Ipeny dime } \end{array}\right.\right) \end{gathered}$ |
| :---: | :---: | :---: |
| -se | \$15.73 |  |
| 2 | \$23.98 |  |
| 13 | \$34.75 |  |
| 80 | \$43.80 |  |
| 2) ${ }^{3}$ | \$40.95 |  |

Read to the child: Now choose one of the items below for your fish tank and give me the amount of money needed to buy it. Use the least amount of bills and coins possible.




O Read to the child: The sun begins to come through Thomas' window. His alarm goes off, and he looks to see that it is a quarter to the hour. Look at his alarm clock. What time does it show?

Before he gets out of bed, he lays there for 3 minutes after his alarm goes off. Show the time on the clock from the math box for the time he got out of bed.

Read to the child: Write the times in the boxes below, and then show them on the clock from the math box.

| Quarter to 12 | Quarter to 9 | Quarter to 1 |
| :--- | :--- | :--- |
| 11.45 | $12: 45$ |  |

- Read to the child: Repeat the poem in the box with me two times. Then circle the time shown on each clock, considering the activity Kim is doing.

$\bigcirc$ Read to the child: Look at each time below and tell me two ways you could say these times. quarter to 10 , nine quarter after 9, nine forty-five fiffeen half past 4 , four quarter to 2 , one thirty



O Note: This lesson is designed to introduce the child to the idea that there are different systems and units of measurement and to help the child determine whether something would be measured in yards/ meters or miles/kilometers. The child is not expected to remember the lengths of yards or meters or the conversion between them. Read to the child: Yards are used in the US customary system, and meters are used in the metric system.

Let's talk about how long meters and yards are. Look at the picture of the wagon. A yard is about as long as a wagon. $A$
 meter is just a little longer than a yard. Using the picture as a reference, answer the questions:

1. Which is longer: a yard or a meter? meter
. Is a loaf of bread longer or shorter than a yard? Than a mete shorter, shorter
ס
2. Is a horse longer or shorter than a yard? longer
3. Is your arm longer or shorter than a meter? shorter Have the child use a ruler to measure 1 yard (3 feet) of a table. A football field is 100 yards or about 91 meters long. If you walked 100 yards and your friend walked 91 meters, would you have walked the about the same distance? Miles (used in the US yes customary system) and kilometers (used in the metric system) measure long distances. It takes about 20 minutes to walk a mile at an average speed. About how
 long does it take to walk a mile? 20 minietes shorter than a mile. It takes about 12 minutes to walk a kilometer at an average speed. A mile is about 18 football fields long. A kilometer is about 11 football fields long.
$\qquad$


- Read to the child: Draw a line from each item below to the units that are more reasonable.
bike ride through town

( Read to the child: We measure the distance an airplane flies in miles or kilometers. This airplane can fly 175 miles in an hour. That means it takes this airplane about 20 seconds to fly a mile! That is much faster than walking a mile in 20 minutes! Look at this image. About how many kilometers can the airplane travel in the same distance as four miles?


Take an airplane from the math box. Read to the child: Let's do an activity to review what we learned in this lesson. I will read you a sentence, and you place the airplane on the airport that is labeled with the right answer. Read to the child the following questions and statements. Check the answer key for answers if needed. Repeat the set of questions as many times as needed. 1) You can walk this far in about 20 minutes. 2) You can walk this far in about 12 minutes. 3) Would you use yards or miles to measure the length of a kitchen table? 4) Which is longer: a mile or a kilometer? 5) Would you use meters or kilometers to measure your height? 6) Which is longer: a yard or a meter? (Look at the wagon picture on the previous page.) 7) What would you measure size of an ocean with: miles or yards? 8) What would you measure the height of a tree with: kilometers or meters? 9) What would you measure the length of a boat with: miles or yards?


2.o. INDEPENDENT REVIEW …\&
Write the standard form and expanded form for each set of base-10 blocks.

Write and complete the problem for the story.
Matt saw 50 stars in his telescope.
Some clouds covered up 25 of the

stars, and then other clouds covered up 25 more stars. How many stars can he see now?

Complete the problems.

Color the squares on the right to match the squares on the left.

Count by 25 s to fill in the missing numbers.

$175200225 \quad 250$


Math 2 Answer Key


$\bigcirc$ Read to the child: When we round a number to the nearest 10, we determine if the number is closer to the multiple of 10 less than or greater than that number. For example, if someone asks you how many tomato plants your family grew in the garden this year, you may not know exactly how many. You know it might be 19, 20, or 21, but you can't remember exactly. You might say, "We have around 20 tomato plants," because 20 is a nice, easy number.

Point to 13 on the second umbrella below. Numbers that end with the digit 1, 2, 3, or 4 round down to the 10 before the number. Slide your finger from 13 to 10 . Now point to 17 . Numbers that end with the digit $5,6,7,8$, or 9 round up to the next 10 . Slide your finger from 17 to 20.

Look at the illustration of an amazing garden on this page. I'm going to tell you the number of each type of vegetable in the garden, and you round it to the nearest 10 .

The boxes are filled in the answer key for your reference if needed. 23 pumpkins 2037 carrots 4015 peppers 20 16 zucchini 2032 tomatoes 30 cucumbers 3034 beets 30



Math 2 Answer Key



O Note: This lesson introduces children to several principles that will not be mastered or reviewed in this math level but will be mastered in Math 3. The objective to be mastered in this lesson is to read temperature on a thermometer to the nearest five degrees. Read to the child: A thermometer is a tool that measures temperature, which is how hot or cold something is. The US customary and metric systems use different scales to measure temperature.

Point to the F on the thermometer on this page. The F stands for Fahrenheit, which is the temperature scale for the US customary system. As we have learned, the US customary system is used mostly in the United States and a few other countries.

Point to the C on the thermometer. For the metric system, the Celsius scale is used. The metric system is used by most of the world.

Fahrenheit and Celsius are the last names of the men who created these systems to measure temperature. In our country do we measure temperature using Fahrenheit or Celsius? No matter where we live, it is good for us to understand both systems.
Point to the degree symbols ( ${ }^{\circ}$ ) on the thermometer. This symbol stands for degree. Both scales measure temperature in degrees.

Point to the number 20 on the Fahrenheit side of the scale. This line
is showing $20^{\circ} \mathrm{F}$. See how it has a longer line by it? Each longer line represents a number in the tens. The shorter lines between each number represent five. For example, move your finger to the shorter line above $20^{\circ} \mathrm{F}$. This is $25^{\circ} \mathrm{F}$. Move your finger to $45^{\circ} \mathrm{F}$. Move your finger to $85^{\circ} \mathrm{F}$.

Point to the number 0 on the Celsius side of the thermometer. $0^{\circ} \mathrm{C}$ is the temperature at which water freezes Point to $5^{\circ}$ Celsius. Point to $25^{\circ} \mathrm{Celsius}$. Point to $30^{\circ}$ Celsius.

Water freezes at $0^{\circ}$ Celsius, which is $32^{\circ}$ Fahrenheit. Point to where you think $32^{\circ} \mathrm{F}$ would be on this thermometer.

O If desired, look up the current temperature where you are. Have the child point to about where that would be on the thermometer.



Math 2 Answer Key


O Read to the child: To be ready for her hike, Julia started walking each day on August 9th. To find out how many weeks she exercised before leaving, point to the day on the calendar she started her hike, August 23 rd. What day of the week is it? [Wednesday] Now move your finger to the Wednesday before that. That is one week. Keep counting each Wednesday until you reach August 9th. Write the number of weeks in the blue box. Fill in the other blue bloxes, using the calendar as needed.


O Read to the child: Julia went on a 20 -mile hike with her father. The days they were gone on the hike are circled in red on the calendar to the right. Let's find out how many days they were gone. Count the elapsed days from August 23rd to 26th. Use the calendar if needed. Write the number in the blue box.



Math 2 Answer Key

## Student

## ASSESSMENT WITH PARENT/TEACHER $\mathcal{E}$

Mark the triangle for any items the child completes incorrectly.
$\Delta$ Have the child raise his or her right hand and left hand.
$\Delta$ Have the child answer the doubles addition plus 1 problems Answers should be given quickly.

$$
7+8|56+7| 35+6| | 8+9 \mid 74+59
$$

$\Delta$ Have the child write the numbers 587 and 1,000 on the whiteboard.
$\Delta$ Have the child write 10 tally marks on the whiteboard.
$\Delta$ Have the child tell you how many are in a dozen and in a half dozen.
$\triangle$ Have the child count by 25 s from 25 to 200 .
$\Delta$ Have the child spell these numbers aloud: $1,2,3,5,11,12,13,14$.
$\Delta$ Have the child count by 2 s from 280 to 300 .
$\Delta$ Have the child answer the subtraction problems in which you can use doubles addition facts to find the answer. Answers should be given quickly.

$$
16-88 \quad 12-6 \quad 6 \quad 14-77 \quad 10-5518-99
$$

Have the child tell you the months of the year and how to know how many days are in each month (either tell you the poem on page 152 or show you the knuckle trick from the video "How Many Days Are in a Month? | Knuckle Mnemonic" on The Good and the Beautiful Kids YouTube channel).

Have the child count by even numbers from 20 to 40 .

## $\therefore \quad$ Additional Practice

Complete the items above for which the triangle is marked.

Write the expanded form of each number.


## 2 Additionol Proctice

Write the standard form and expanded form for each set of base-10 items.


Add 10 by increasing the digit in the tens place by one.

| Hundreds | Tens | Ones | Hundreds Tens Ones  <br> 7 3 5 7 $\mathbf{4}$ | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |

Subtract 10 by decreasing the digit in the tens place by one.

| Hundreds | Tens | Ones | Hundreds Tens Ones  <br> 8 4 2 8 $\mathbf{y y y y y}$ | 3 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: |

Add 100 by increasing the digit in the hundreds place by one.

| Hundreds | Tens | Ones | Hundreds Tens Ones  <br> 5 1 8 6 | 1 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: |

Subtract 100 by decreasing the digit in the hundreds place by one.

| Hundreds | Tens | Ones | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 9 | 4 | 5 | 9 | 4 |
|  |  | Additional Practice |  |  |  |

Add 10 to the Subtract 10 from Add 100 to Subtract 100 from number. the number. the number. the number.




Complete the addition problems.

| 11 | 1 |
| ---: | ---: |
| 345 | 3.439 |
| +237 | +3.258 |
| 582 | 6.697 |

## \% TIME: PART 8 E

Write the time to the minute in the yellow box.

$\therefore \quad \square$ Addition al Practice
Write the time to the minute in the yellow box.


## Z SUBTRACTION WITH MONEY \&

Complete the money subtraction problems. Don't forget to write the decimal points and dollar signs in your answers.

| $\$ 4.86$ | $\$ 3.89$ |
| ---: | ---: |
| $-\$ 3.23$ |  |
| $\$ 1.63$ | $-\$ 1.46$ |
|  | $\$ 2.43$ |

Complete the money subtraction problems. Don't forget to write the decimal points and dollar signs in your answers.

| $\$ 7.67$ | $\$ 6.68$ |
| ---: | ---: |
| $-\$ 3.23$ |  |
| $\$ 4.44$ | $-\$ 2.35$ |
| $\$ 4.33$ |  |

## \% FRACTIONS E

Write the fraction of the circle that is shaded in the orange box.

$\therefore \quad$ Additional Practice
Fill in the circle above the correct fraction.


## ม్ <br> ADDITION: REGROUPING MULTIPLE DIGITS

Complete the problems.


## - Additional Proctice

Complete the problems.


## AdDING 3 ONE-DIGIT NUMBERS

Complete the problems. Write the answers in the bubbles.

$: \quad$ Additional Practice
Complete the problems.



Write the correct time in each box.



## Start the Lesson Here

O Take an airplane from the math box and give it to the child. Read to the child: I will point to each number on the first runway below as I count by thousands. Runways for smaller planes need to be at least 6,000 feet long. Place your airplane on "Start" on the first runway below and move your airplane to each box, counting each thousand as you go until you reach "Takeoff." When you see the comma in the number, say THOUSAND. Large airplanes need runways that are at least 8,000 feet long. On the second runway, write in the missing 1,000s.

O Take the numbers from the math box and give them to the child. Take an airplane from the math box and keep it. Lay out all the numbers. Read to the child: Let's play "Fastest Flight." On the board below, you put your airplane on "Start," and I will put my airplane on "Start." I will mix up the numbers, and you choose four of them while closing your eyes. Arrange the digits to make the largest number you can. Say the number, and then show me where the comma would go, which is where you say "thousand." Then put the numbers back and mix them up, and l'll choose four while closing my eyes and doing the same thing. The person with the greater number gets to move forward one spot on the board. We will continue the same steps until one person reaches "Land" and wins.

| Start | 1,000 | 2,000 | 3,000 | 4,000 | 5,000 | 6,000 | Takeoff |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start | 1,000 | 2,000 | 3,000 | 4,000 | 5,000 | 6,000 | 7,000 | 8,000 |

FASTEST fiugh Start





Math 2 Answer Key


Math 2 Answer Key


Math 2 Answer Key




Math 2 Answer Key


Read to the child: Addends are the numbers added in an addition problem. In the problem $1+2=3$, the addends are 1 and 2 . What are the addends in $3+4=7$ ? When you have a missing addend in an addition problem, you can start with the addend you know and count how many more you need to get to the sum (the answer). Fill in the missing addends below. If desired, draw the number of missing dots to help you.


O Read to the child: You and your cousins go on two hikes, taking different paths. One of your cousins, Ann, keeps asking you how many more miles you have left to go. At each point on the trail with a problem, the sum (in orange) shows the total number of miles in the hike, which is 9 . The addend in blue shows how many miles you have gone. Fill in the blank box with the number of miles you still have to go.



Math 2 Answer Key


Math 2 Answer Key



Math 2 Answer Key



Read to the child: Point to each coin below and say its name and its value.


O Take a variety of money from the math box. Read to the child: I will name a coin or bill, and you pick it out of the pile of money. If you choose the correct one, you get to keep it. After five turns you will add up the money you have. Say the names of different coins and bills. Repeat the activity but say the value of the coins or bills. Repeat as often as desired.

O Read to the child: You and your family have been trying to raise money for a school in Africa. You love learning and want to help other children have opportunities to learn too. Your family put on a bake sale, and now you are counting the money earned. Create two piles of money in front of you. Count the money in each pile and write the totals in the blue boxes. Then draw a greater than, less than, or equal sign between the boxes to compare the totals. Do the same for the yellow boxes.


O Read to the child: We are going to play a game to see who earned the most money fundraising for the African school. We will each take turns closing our eyes and reaching to the pile of money. The first thing you touch is added to your pile. When all the mnnn... we will add up ourmers will vary. ost, but wa Answers wacted from your total.



Complete the subtraction problems. Don't forget to borrow and regroup.


Write the number of days in each month. If needed, reference the poem on page 152.


Fill in the missing addend. If needed, draw the missing number of dots on each domino to help you find the answer.


201


O Read to the child: Before blasting off into space, a rocket has to go through a checklist. Go through the checklist below to complete the subtraction problem with regrouping.



O Take the rocket from the math box and give it to the child. Read to the child: You are going to do an activity called "Path of Planets" on the next page. You will use the key to follow the order of planets from largest to smallest. Pluto is a dwarf planet and not one of the eight planets in our solar system. Place the rocket on the largest planet, complete the problem, and then move the rocket to the next largest planet, complete the problem on the planet, and then move to the next largest planet and so on until you have visited each planet and Pluto.


203


Complete the subtraction problems. Don't forget to borrow and regroup.


On each orange chart, write the digit in each place value shown by the base-10 blocks or the number. Don't forget the commas.


Math 2 Answer Key



O Take the stars from the math box. Show the child any four stars. Read to the child: We have four stars here. I am going to pass out one star to each of us until they are gone. Pass out the stars. We now have the same number of stars. How many do we each have? We divided them into equal groups. When we divide, we split numbers or items into equal groups. Collect all the stars. Now look at these 10 stars. Let's each grab one at the same time and repeat until there are no stars left. How many do we each have?

O Read to the child: A homeschool group decided to pick apples at an orchard. Different groups of friends decided to pick apples together. Each group puts all the apples in one basket and will divide up the apples at the end so everyone in the group gets an equal share. The first group has two children. Draw two circles on the
 whiteboard to represent the two
children. Draw one tally mark in each circle by going back and forth until you have drawn a tally mark for each apple as you cross off the apples. Write the total number of apples each child in the group gets in the yellow box.


Follow the same process for the following exercises. For example, the first exercise has three children, so you will draw three circles on the whiteboard and then draw one tally mark in each circle back and forth until you have drawn a tally mark for each apple. The final number of tally marks in each circle shows how many apples each child in the group receives.



Write the standard and expanded forms shown by the base-10 blocks and the number word.


Fill in the missing numbers, counting by 1s. Don't forget the commas.

| 2,996 | 2,997 | 2,998 | 3,999 |
| :--- | :--- | :--- | :--- |



O Take the stars from the math box. Read to the child: I'll pick up four stars. Now I will give each of us a star until they are gone. Pass out the stars. We each have two stars, an equal number of stars. Let's try doing the same thing with 5 stars. Pass out the stars. As you can see, we can't divide five into two equal parts. We have two equal groups of two and one left over.

O Take an airplane and the 10 -sided dice from the math box. Read to the child: Place your airplane on "Start." Roll the dice. If the number you roll can be divided equally into two groups, then you will move forward two spaces on the game board. (Hint: Even numbers can be divided evenly by two.) If you roll a number that cannot be divided equally and has one left over, then you will stay where you are. Continue rolling and moving until you reach the finish line. Repeat as many times as desired.

Read to the child: Look at the groups of clouds below. Draw a line to divide each group of clouds into two even sets. If there is one left over, circle it.



Math 2 Answer Key


() Read to the child: You have learned how to round numbers to the nearest multiple of 10 . We are going to practice adding two numbers together and rounding the answer to the nearest ten. Read the information in

## $4+4=8$

8 rounded to the nearest ten is 10 the box to the right to me. Now complete the addition problems on the rain boots in your mind, and then round the answer to the nearest ten and write it in the puddle below. Remember, when rounding to the nearest ten, a number ending in five or greater rounds up.


Take the 6-sided dice from the math box. Read to the child: We are going to do an activity called "Rounding in the Rain." Roll the dice and write the number in the second box above each umbrella. Add that number to the number provided. Then round the answer to the nearest 10 and write it in the blue box. Repeat for all the umbrellas






Math 2 Answer Key


Math 2 Answer Key


217


Math 2 Answer Key
How wonderful each day is depends on your attitude, not what happens or doesn't happen to you. For each clock, write the time shown on the clock, including the AM/PM.

219


O Read to the child: Miguel's family owns a watermelon farm. One day his mother slices a ring of watermelon and divides it into six equal parts. The ring of watermelon was one whole until it was cut. Each piece cut is a fraction of the whole ring. A fraction is part of a whole.
Look at this circle. How many pieces is it divided into? [6] Miguel and his sister took four of the pieces. How many pieces are left? [2] Point to the fraction $\frac{2}{6}$. Two-sixths of the watermelon ring is left. This is how we write the fraction two-sixths. Fractions have two numbers with a line between the numbers. The bottom number tells how many equal parts a whole is divided into. The top number tells how many parts we are referring to.
Write the missing fractions for these two rings of watermelon. Below the line write the total number of equal parts shown on the circle. Above the line write the number of parts left.

O Read to the child: Fill in the circles to show each fraction.


O Read to the child: Miguel's younger cousins came over, and Miguel's mother sliced a ring of watermelon into 10 pieces. Write the fraction of watermelon left for these rings of watermelon. Below the line write the total number of equal parts shown on the circle. Above the line write the number of parts left.


O Take the numbers from the math box. Have the child create the following numbers, showing you where the comma goes:

$$
\begin{array}{l|l|l}
1,652 & 3,012 & 5,903
\end{array}
$$



Math 2 Answer Key


Math 2 Answer Key


Read to the child: Look at the painting on the next page. Today we will use this painting to learn about multiplication. We use the $\times$ sign when we multiply. Multiplication is a shortcut for adding equal groups together to find the total. Where would you plant a garden on this farm? The farmer has planted straight rows of cabbages. Let's suppose he planted 6 rows of plants and there are 10 plants in each row. To figure out how many plants there are altogether, we could do this addition problem. Skip count to complete the problem:

$$
10+10+10+10+10+10=60
$$

How many times did you add 10 together? Yes, 6 times. We could use this multiplication problem instead of the addition problem:

$$
6 \times 10=60
$$

Multiplying 6 times 10 is the same as adding 10 six times.
Point to the stacks of hay in the field. Let's suppose there are 5 rows of hay and there are 3 stacks of hay in each row.

To figure out how many stacks of hay there are total, we could do this addition problem. Skip count to complete the problem:

$$
3+3+3+3+3=15
$$

How many times did you add 3 together? Yes, 5 times. We could use this multiplication problem instead of the addition problem:

$$
5 \times 3=15
$$

Multiplying $5 \times 3$ gives us the same answer as adding 3 five times.
Now I am going to read you some math problems. For each math problem, write an addition problem that can answer the question, and then write a multiplication problem that can answer the question. Complete the problems by using skip counting. The answer key shows the answers in the blank boxes below for your reference if needed.
\#l: Point to the barn. In the barn are 2 rows of horse stalls. There are 4 stalls in each row. How many stalls are there altogether?

$$
2+2+2+2=8 \quad 2 \times 4=8
$$

\#2: The farmer planted 5 rows of corn, and there are 7 corn plants in each row. How many corn plants are there altogether?

$$
7+7+7+7+7=35 \quad 7 \times 5=35
$$

\#3: Run your finger along all the fences you see in the painting. The farmer built 3 new sections of fences, and each section used 6 pieces of wood. How many pieces of wood did he use altogether?

$$
6+6+6=18 \quad 3 \times 6=18
$$



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O Read to the child: Suppose you have 4 shelves of books with 2 books on each shelf. To figure out how many books there are total, we could do this addition problem. Skip count to complete the problem:

$$
2+2+2+2=8
$$

How many times did you add 2 together? Yes, 4 times. We could use this multiplication problem instead of the addition problem:

Multiplying $4 \times 2$ is the same as adding 2 four times.

$$
4 \times 2=8
$$

O Take the helicopter from the math box. Have a whiteboard and dry-erase marker ready. Read to the child: There are several different landscapes on this page and the next page.

Take your helicopter and land it on your favorite scene. Then tell me two different ways to say the time on the clock (for example, half past 6 and $6: 30$ or quarter to 5 and $4: 45$ ). Also tell me if it is AM or PM. Then I will read the story. On the whiteboard you write an addition problem that can answer the question in the story, and then write a multiplication problem that can answer the question. Complete the problems by using skip counting. Then go to your next favorite scene and so on until you have visited every scene.

1:15 have 4 blades each. How many blades are there altogether?

$$
4+4=8 \quad 4 \times 2=8
$$

Midnight was just over an hour ago.

$\square$

Five camels came carrying 5 baskets each. How many baskets were the camels carryinq altogether?
$+5+5+5+5=25 \times 5=25$
It will be midnight in less than 2 hours.


## 3:15

Four trees h

It is daytime. $3+3+3+3=12$ $4 \times 3=12$


You find a unique type of red flower. There are IO flower with 4 petals each. How many petals are there altogether? $4+4+4+4+4+410 \times 4=40$ Noon was 45 minut+ $44+4+4+4=40$


## 11:45

As you watch the stars, you pull 3 chocolate bars from your backpack. Each bar has 5 sections. How many sections of chocolate do you have altogether? It is almost midnight. $5+5+5=15 \quad 3 \times 5=15$



Fill in the missing addend. If needed, draw the missing number of dots on the domino to help you find the answer.



What is heavier: a pound or an ounce? poundeavier: a ton or a pound? Honmany ounces are in a pound? 16 rounce sis 1 ounce, how many pencils would weigh a pound? If 6 apencils eighs one pound, how many cans of soup would weigh one ton? $2,000 \mathrm{c}$ an of bread be more likely to weigh a pound or a ton? [a pounda loaf of bread that weighs a ton could fit on your kitchen counter? n o
$\bigcirc$ Read to the child: Kayla weighs a lot of things in her house with her family's new scale and thinks it is so fun. She loves animals, so she decides to make a chart for her homeschool science journal. Tell me each animal on her chart and about how much it weighs.


O Read to the child: Complete the following exercises. Refer to the charts on this page if needed.
Fill in the circle that shows the most reasonable weight of each bird.


If a truck weighed 3 tons and we wanted to figure out how many pounds it was, we could add $2,000+2,000+2,000$ (because there are 2,000 pounds in each ton), or we could write $2,000 \times 3$. Write an addition problem and a multiplication problem to figure this out: if a dog weighed 3 pounds, how many ounces would it weigh? You do not need to complete the problems; just write them.

$$
16+16+16=48
$$

$$
16 \times 3=48
$$



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Read to the child：An array is a a group of numbers or items arranged into rows and columns．Look at this array with grasshoppers．How many grasshoppers are in each row？How many rows are there？ Read to the child the addition and multiplication problems shown by the array．
Addition Problem： $5+5+5$
Multiplication Problem： $3 \times 5$（3 rows $\times 5$ grasshoppers in a row）


Read to the child：Write the addition problem and multiplication problem shown by each array．

| Addition Problem： | $6+6=12$ |
| :--- | :--- |
| Multiplication Problem： | $2 \times 6=12$ |


| Addition Problem： | $4+4+4+4=16$ |
| :--- | :---: |
| Multiplication Problem： | $4 \times 4=16$ |

## 4 W W W <br> 紋 <br> 銥 䜌 <br> 紋（W）

| Addition Problem： | $10+10+10=30$ |
| :---: | :---: |
| Multiplication Problem： | $3 \times 10=30$ |
| $\times \times \times \times \times \times \times$ | $\times \times \times$ |
| $\times \times \times \times \times \times \times$ | $\times \times \times$ |
| $\times \times \times \times \times \times \times$ | $\times \times \times$ |



Math 2 Answer Key


- Read to the child: The picture on the next page was painted by Walt Curlee. It shows a boy who has completed his farm chores and now gets to go fishing. We will call him Joe. Joe has done many things on the farm today. We will use the grid over the picture and the coordinates (the numbers and letters) to find where he has been. For example, find the animal at B9 by finding the letter B at the top of the grid and going down the column until you reach row number 9 .

Compare the weights in the boxes below and write <, >, or = in each circle. Compare the symbols you wrote in the blue circles to the key in the blue shaded boxes to find the coordinates that answer each question.



Read to the child: Fill in each blank with any number that makes the statement true.


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Gabe and his dad found something amazing-a nest of alligator eggs were hatching. There were 35 total eggs, and 4 of them had already hatched. Before they had to leave, 6 more hatched.* How many eggs had NOT hatched by the time they left?

There are two ways we could figure out this problem. Here is one of them. First, create an addition problem to figure out how many eggs had hatched by the time they left. Read the purple text again and stop at the asterisk. The child should write $6+4=10$. Now you can subtract 10 from the total number of eggs. The child should write 35 $-10=25$. We figured out that 25 eggs had not hatched by the time Gabe and his father had to leave.

O Read to the child: I'll read three more stories. Listen to the entire story first. Then l'll read it again and pause while you write down the first problem. Then I'll continue reading, and you write down the next problem. Check the answer key if needed.

Gabe found turtle eggs on a bank. Of the 43 eggs, 17 had hatched. As he ate his lunch, 5 more hatched. How many
eggs have still not hatched?
$17+5 \stackrel{\text { eegs fave stin or hather? }}{=} \quad 43-22=21$

With his brand-new camera, Gabe took 10 photos. Then he took 10 more photos. He deleted 5 of the photos he took. How many photos does he have on his camera? $10+10=20 \quad 20-5=15$

At another spot, Gabe saw 27 alligators on the bank. 14 of them went into the water. Then 8 more of them went into the water. How many are left on the bank? $14+8=22$ the water. How many are left on the bank? $27-22=5$



Math 2 Answer Key


O Read to the child: Today you get to do activities with fractions! The bottom number of a fraction tells how many equal parts a whole is divided into. The top number tells how many parts we are referring to.

1. First, for each box on the next column, either shade in the right number of parts on the shape (if the shape is empty) to show the fraction below the shape, or write the fraction shown by the shape.
2. Cut out the boxes and mix them together. Collect and lay the rectangle fractions in a row from the smallest to the largest fraction. Do the same with the circles.
3. Collect the rectangle fraction boxes and turn them all over. You and I choose a box each round. The person with the largest fraction wins. We'll keep track of points with tally marks on the whiteboard and return the pieces after each turn. The first person to get to 4 tally marks wins. We will then repeat the same game with the circle fractions.




Fill in the circle that shows the most reasonable weight of each item.


Write the correct time in the blue box if you start at 12 PM.

## 12 PM

| A HALF <br> HOUR FROM <br> NOW | $12: 30 \mathrm{PM}$ |
| :---: | :---: |
| 2 HOURS <br> FROM NOW | $2: 00 \mathrm{PM}$ |
| 1 HOUR <br> FROM NOW | $1: 00 \mathrm{PM}$ |
| 4 HOURS <br> FROM NOW | $4: 00 \mathrm{PM}$ |


$\Delta$

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Give the child a whiteboard and dry-erase marker. Read to the child: Today, you are going to imagine that you are organizing some summer arts and crafts classes for younger children in your neighborhood. You need to figure out how many supplies you need. For each item write an addition problem and multiplication problem in the box provided that can help you figure out how many total items are needed. You do not need to complete the problems. Read the story in each box. For your reference, the answers can be found in the blank boxes on the answer key.


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Four children need 3 colored pencils each. How many colored pencils do you need altogether?


Five children need 3 pieces of paper each. How many pieces of paper do you need altogether?

$$
3 \times 5=15
$$



Four children need 2 feathers each. How many feathers do you need altogether?

$$
2 \times 4=8
$$



For each amount of cents shown, circle the coins you would use to equal the amount. Use the fewest number of coins. (Hint: Circle the highest-value coins you can use first.)

An hour can be divided into four quarters. Fill in the circle that shows what fraction of an hour is shown on each clock.

$\bigcirc \bigcirc$

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Gabe counted all the blue herons he saw that day. Before lunch he saw 4, and after lunch he saw 12.* Gabe knows that male herons are larger than female herons. He looked closely. 8 of the herons he saw were females. How many were males?

$$
4+12=16 \quad 16-8=8
$$

The first thing we need to do is figure out how many herons he saw in total. I will read part of the story again, and you will write a problem to figure out the total number of herons seen. Read the purple text again and stop at the asterisk. The child should write $4+12=16$. Now I will read the rest of the problem, and you will write a problem to answer the question. Read the rest of the text. The child should write $16-8=8$.

With his binoculars Gabe spotted a nest of duck eggs. He saw 12 eggs. As he was watching, he witnessed 3 eggs hatch! Just before Gabe had to leave, he checked the nest one last time and saw that 4 more eggs had hatched. How many eggs had NOT hatched by the time Gabe had to leave? $\quad 3+4=7 \quad 12-7=5$
Here is one way we can figure out the problem. First, create an addition problem to figure out how many eggs had hatched by the time they left. Read the purple text again. The child should write $3+4=7$. Now you can subtract 7 from the total number of eggs. The child should write 12-7=5. We figured out that 5 eggs had not hatched by the time Gabe and his father had to leave.

O Read to the child: I'll read four more stories. Listen to the entire story first. Then I'll read it again as many times as you need as you write down and complete the problems that answer each story.

Gabe counted 7 birds in a tree. Then 3 more birds flew onto the tree. 2 of the birds were storks. How many birds on 7 e + e 3 e $=10$ torks? $\quad 10-2=8$

Gabe saw 23 ducks before lunch and 17 ducks after lunch. Thirteen of the ducks he saw were wood ducks. How many


| That day Gabe took 12 photos. Then he took 7 more photos. He deleted 3 of the photos he took. How many photos did $12+27$ a $=19$ at he did not 19 en? $3=16$ |
| :---: |
| Gabe had 22 bird sketches in his sketchbook. Today, he added 3 more sketches before lunch and 2 more sketches <br>  | tos. He deleted 3 of the photos he took. How many photos



Gabe had 22 bird sketches in his sketchbook. Today, he added 3 more sketches before lunch and 2 more sketches af 22 n.t. $3=25^{\text {sketches do } 25^{\text {e }}+{ }^{\text {av }} 2 \text { in } \pm \text { t } 27 ~}$


Math 2 Answer Key


O Read to the child: Chloe and her cousins love crafts. They try to find the similarities and differences between two crafts: crocheting and knitting. To see this information visually, they use a Venn diagram. A Venn diagram is a way to show similarities and differences. Point to the blue part of the circle on the left. It shows information that applies to crocheting and not knitting. The red part of the circle on the right shows data that applies to knitting but not crocheting. The circles overlap in the middle. The middle information applies to both crafts.



O Read to the child: Create a Venn diagram that shows similarities and differences between cats and dogs. Then in the diagram, I will draw and write what you tell me aloud. Answers will vary.


## Z ASSESSMENT WITH PARENT/TEACHER

Mark the triangle for any items the child completes incorrectly.
$\Delta$ Have the child raise his or her right hand and then left hand.
$\triangle$ Have the child complete the addition problems with the number 9 . Answers should be given quickly.

$$
\begin{array}{ccc}
29+9 & 36+9 & 17+9 \\
38 & 45 & 26
\end{array}
$$

$\Delta$ Have the child write the numbers 3,270 and 4,504 on the whiteboard.
$\triangle$ Have the child tell you how many are in a dozen and in a half dozen.

$$
12,6
$$

$\Delta$ Have the child count backward from 1,000 to 980 .
$\triangle$ Have the child spell these numbers aloud or write them on the whiteboard: $15,16,17,18,19$.
$\Delta$ Have the child count by even numbers from 3,000 to 3,012 .


Complete the sections above for which the triangle is marked.

EXPANDED FORM TO THE THOUSANDS

Write the standard form and expanded form for each set of base-10 items.

$\because \square$ Addition al Proctice
Write the standard form and expanded form for each set of base-10 items.


## ADD AND SUBTRACT 10 AND 100 ह

Fill in the missing boxes.


## Z SUBTRACTION WITH REGROUPING $\mathcal{E}$

Complete the subtraction problems.


## $>\quad$ Addition al Practice

Complete the subtraction problems.


## MISSING NUMBERS IN ADDITION \&

Fill in the missing addend. If needed, draw the missing number of dots on the domino to help you find the answer.

$$
\begin{array}{|l|l|l|}
\hline \therefore & \ddots \because & 1+5=6 \\
\hline
\end{array}
$$

$$
\begin{array}{ll}
\therefore & 0 \\
0 & 0 \\
0 & 4 \\
0
\end{array}
$$



## $\square$ Additional Proctice

Fill in the missing addend. If needed, draw the missing number of dots on the domino to help you find the answer.

$$
\begin{aligned}
& 0 \cdot: 2+6=8 \\
& 0 \%{ }^{\circ} 0 \\
& \because \cdot 2+5=7
\end{aligned}
$$

## Z ROUNDING WITH SUBTRACTION

Write and complete the problems for the story.

| Tina picked 15 berries, and then she picked 20 more. She ate 10 of the berries. How many berries does she have left? |  |
| :---: | :---: |
| $15+20=35$ | $35-10=25$ |

## 2 Addition al Proctice

Write and complete the problems for the story.

There were a dozen eggs in the box. Dan took 9 of the eggs, and Ricardo put 5 new eggs into the box. How many eggs are in the box now?


Complete the addition or subtraction problem and write the answer rounded to the nearest ten.


Complete the addition or subtraction problem and write the answer rounded to the nearest ten.


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## \% DIVIDING INTO GROUPS EVENLY AND WITH I LEFT OVER

Draw a line to divide each group of items into two even sets. If there is one left over, circle it.


Draw a line to divide each group of items into two even sets. If there is one left over, circle it.


## \% Adding 3 two-Digit numbers \%

Complete the addition problems.


Complete the addition problems.

| 28 | 49 |
| ---: | ---: |
| 32 | 31 |
| $+\quad 68$ | $+\quad 29$ |
| 128 | 109 |

2 $2 \times 2$

- Jenny Phillips


## \% POLYGONS E

Polygons are shapes that are closed and have three or more straight sides. Circle all the shapes that are polygons.

$>\square$ Additional Proctice
Draw a line from each polygon to its name. (Hints: "Octa-" means 8. "Hexa-" means 6. "Penta-" means 5.)

Write the addition problem and multiplication problem shown by the array．

| Addition Problem： | $5+5+5=15$ |
| :--- | :---: |
| Multiplication Problem： | $3 \times 5=15$ |
| 00000 |  |
| 00000 |  |
| 00000 |  |

$\square$ ：$\square$ Addition al Practice

Write the addition problem and multiplication problem shown by the array

| Addition Problem： | $4+4=8$ |
| :--- | :--- |
| Multiplication Problem： | $2 \times 4=8$ |
|  |  |
| $\times \times \times \times$ |  |
| $\times \times \times \times$ |  |



Fill in the circle that shows the most reasonable weight of each item．

| 1 ounce is about the <br> weight of a pencil． <br> 1 pound $=16$ ounces <br> 1 ton $=2,000$ pounds | 1 gram is about the weight of a <br> paper clip． <br> 1 kilogram $=1,000$ grams（about <br> the weight of a pineapple） |
| :--- | :--- |

## $\geq$ Additional Proctice

Fill in the circle that shows the most reasonable weight of each item．



O Read to the child：Todd and his grandmother are going to the art museum where his grandmother＇s painting is being shown．She has given him a challenge to see how many paintings he can find that feature people，nature，and animals．He takes a notebook to write down his data．Data is information collected．Todd makes a tally chart to organize his data．Filling in a chart with marks that represent numbers is faster than writing out words or numbers．
When reading a chart，start by reading the title，the categories，and the symbols．Have the child find and point out these parts on the graph．Count the tally marks and write the number of paintings Todd saw in each category

| Coteorris | Title | Symbols |
| :---: | :---: | :---: |
|  |  |  |
| ir ${ }^{4}$ | WH WH WHIII | 18 |
| \％ | 为 壮 IIII | 14 |
| $\pi{ }^{4}$ | 为 䄳 II | 12 |

O Read to the child：Todd created a pictograph of his data below． A pictograph is a graph that uses pictures to display data． A pictograph also includes a key that tells you the number represented by the picture or symbol．Have the child find and point to the symbol and key below．The key tells us that each paintbrush symbol represents 2 paintings．Count the paintbrushes by $2 s$ and write the total for each row in the blue boxes．


O Take out a piece of scratch paper．Read to the child：We are going to make a tally chart using the art gallery on the next page．Draw a chart on your scratch paper with three rows and three columns，just like the tally chart to the left．Next，write a title．For the categories write＂people，＂＂nature，＂and＂animals．＂In each row draw tally marks to represent the number of paintings for each category．How many paintings do you see of each kind？Which category has the most paintings？

O Where Is Grandmother＇s Painting？Activity： Read to the child：Each numbered painting corresponds to a numbered subtraction problem at the bottom of the page．Complete each problem．The problem that has an answer of 50 is Grandmother＇s painting．



Math 2 Answer Key


Todd used the data listed in the table to create a bar graph. A bar graph is a graph that uses bars to display (or show changes in) data. The bars can run vertically (up and down) or horizontally (from left to right). The bars on this graph run vertically.

To read the bar graph, look at the category at the bottom of each bar. Place your finger on the watercolor column. Move your finger up to the top of the bar, and then slide it over to the scale on the left. What number are you pointing to? That means 10 watercolor paintings were made. How many pastel chalk works did he make? [7] He made 9 colored pencil works. Fill in the bar in the colored pencil column to represent this data.

Use the information shown in the bar graph to answer these questions:

- Which category of art did Todd create the most of?
- Which Watercolor
- Which category of art did he create the least of? pastel chalk
- How many more watercolor works were completed than pastel chalk works? 3
- How many total works did Todd complete? 26

O Read to the child: Draw a line from the type of graph to its name.


O Read to the child: We are going to make our own table and bar graph. First, in the table, write the names of the four different fruits shown below (pears, apples, peaches, oranges). Count the number of each type of fruit below, and then write the totals in the "\# of fruit" column. Next, using the data from the table, fill in the bar graph. List each fruit name along the bottom of the graph. Color in the bars to show the number of each fruit. Ask the child questions about the chart and bar graph.


| Fruit Name | \# of Fruit |
| :---: | :---: |
| pears | 4 |
| apples | 5 |
| peaches | 6 |
| oranges | 4 |




| Planet | Mercury | Venus | Earth | Mars | Jupiter | Saturn | Uranus | Neptune |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weight | 23 | 55 | 60 | 23 | 140 | 56 | 55 | 67 |

- On which planet would you weigh the most? Ju piter
- How much more would you weigh on Jupiter than on Earth? 80 lb

[^0]$2_{2}^{272}$



${ }^{274} \mid$
Math 2 Answer Key

Read to the child: Use the tables to fill in the blue boxes from least to greatest, and then circle the median number.

| Bike Ride | \# of miles |
| :---: | :---: |
| Tuesday | 3 |
| Thursday | 5 |
| Saturday | 4 |

Read to the child: Today we are going to learn how to find the median. The median is the number in the middle of a list of numbers when the numbers are in order from least to greatest The table to the right shows the number of miles the Garcia family went on a bike ride. Tell me what days they biked and how many miles they went each day. We are going to use this data to find the median. The boxes below show the numbers from the table sorted from least to greatest. The middle number is circled; this is the median.

| Bike Ride | \# of <br> miles |
| :---: | :---: |
| Monday | 2 |
| Wednesday | 1 |
| Friday | 6 |


| Bike Ride |  |
| :---: | :---: |
| \#onday | 7 |
| Tuesday | 2 |
| Wednesday | 3 |


| Bike Ride |  |
| :---: | :---: |
| \#hursday | 8 |
| Friday | 4 |
| Saturday | 1 |

## ${ }^{275} \mid$

MATH $2=\star$

Read to the child: The tallest mountain on Earth is Mount Everest. It reaches just over 8,848 meters into the sky. You could also say that it is 8.8 kilometers tall, or 884,800 centimeters. Centimeters, meters, and kilometers are all measurements of distance or length in the metric system. You have already learned about kilometers. Look at the chart below. How many centimeters are in a meter? [100] How many meters are in a kilometer? [1,000]

| Centimeters (cm) | Meters (m) | Kilometers (km) |
| :--- | :---: | :---: |
| This line is one <br> centimeter long. | A baseball bat is centimeters <br> about I meter long. | A long bridge can <br> be about a kilometer <br> long. |

Circle the most reasonable units for the measurements below.
Mount Everest is 8,848 $\qquad$ tall.
A rescue helicopter has a length of about 30 $\qquad$ km km A hiker's arm is about 5 $\qquad$ wide.
$m \sim \mathrm{~cm} \mathrm{~km}$

- Race to the Rescue Game: Take the helicopter from the math box. Read to the child: A group of climbers needs to be rescued as quickly as possible. Place your helicopter on "Start" and start a timer for one minute. Move your helicopter to each circle representing a climber and say aloud the most reasonable unit of measurement to answer the statement at that number. If the timer goes off before you finish, start again. Continue trying until you rescue all the climbers before the time runs out!

1. The hike from the base of Mount Everest to the top is 20 km .
2. A packhorse is about $2 \quad \mathrm{~m}$ long.
3. A water bottle is 20 CM long.
4. A glacier near Mount Everest is 200 M deep.
5. A rescue rope is 60 m long.
6. The rescue helicopter flies $4 \underline{\mathrm{~km}}$ to the 1 st climber.


$\bigcirc$ Read to the child: In previous lessons you have learned how to measure the length of an object. Today you will learn how to measure volume, which is the amount of space a liquid or an object takes up. In the US customary system, volume is measured using gallons, quarts, pints, and cups. Point to each item below, and I will tell you the volume of the item.



O Read to the child: Look at the images in the left column of this page as you do this activity. Circle the more reasonable unit to use to measure the volume of each item. Each unit will be used once.



Fill in the missing addend. If needed, draw the missing number of dots on each domino to help you find the answer.


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Math 2 Answer Key


Read to the child: The following units are additional ways to measure volume in the US customary system. Remember, volume is the amount of space a liquid or object takes up. Point to the cup on the far left. This was the smallest unit of measure in the last lesson, but we will now learn about even smaller units. Point to each unit below, starting with the largest, and repeat its name after me.


Read to the child: Point to the cup. Point to the half cups. How many half cups are under the cup? [2] There are two half cups in a cup. Point to the tablespoons. How many tablespoons are under a half cup? [8] Point to the teaspoons. How many teaspoons are under a tablespoon? [3] There are three

teaspoons in a tablespoon. How many half teaspoons are under the teaspoon? [2]

Use comparison symbols $>,<,=$ to make the statements true.
$\frac{1}{2}$ teaspoon $<1$ tablespoon
1 teaspoon $<1$ tablespoon
$\frac{1}{2}$ teaspoon 1 teaspoon
3 teaspoons $=1$ tablespoon

Circle the number of teaspoons that is equal to a tablespoon.


Circle the number of $\frac{1}{2}$ teaspoons that is equal to 1 teaspoon.




Read to the child: Liters and milliliters are metric units used to measure volume in most countries outside the United States. A milliliter is a unit used to measure small amounts of liquid. One milliliter is about the same as 20 drops of water. A liter is a unit used to measure larger amounts of liquid. One liter can fill a large water bottle. Point to each unit below and say its name.


Each picture shows a different volume of liquid. Choose the more reasonable unit of measurement to use for each picture by drawing a


| Milliliters | Liters |
| :--- | :--- |
| A milliliter is about the same <br> as 20 drops of water. | 1,000 milliliters |
|  | A bottle of water is about I <br> liter. |

〇 Take a dice from the math box. Read to the child: Look at the table above. How many milliliters are in a liter? [1,000] How many milliliters are in 2 liters? To find out, you would write three Os at the end of the number of liters. Roll the dice and write the number in the first liters square in the table below. Then convert that number to milliliters by writing that number in the first square in the milliliters row and writing three $0 s$ at the end. Continue rolling, writing, and converting until all the columns are filled.


O Read to the child: For both groups of bottles, put each bottle in order below based on its volume with number one being the greatest volume.




Read to the child: Remember that a bottle of water has a volume of about 1 liter. If we have two liters of water in the cupboard and then add one more liter, we would have three liters of water as shown below. The answer to an addition problem is called the sum. The answer is written with the unit abbreviation-in this case, " $L$ " is for liter.

( Read to the child: If we have three liters of water in the cupboard and take two out, we have one liter of water left. The answer to a subtraction problem is called the difference. Again, the answer is written with the unit abbreviation.

$\bigcirc$ Read to the child: Complete the addition and subtraction problems below. Remember to write the "L" for liter. Then circle if the answer is a sum or a difference.

$$
\begin{aligned}
& 5 \mathrm{~L}+6 \mathrm{~L}=\| \mathrm{L} \xrightarrow[\text { DIFFERENCE }]{\text { SUM }} \\
& 4 L-2 L=2 L \rightarrow \frac{\text { SUM }}{\text { SIFFERENCE }} \\
& 8 L-3 L=5 L \xrightarrow[\text { SUTFERENCE }]{\text { SUM }}
\end{aligned}
$$

O Read to the child: We have two full liters and a bottle that is half full. Half of a liter is 500 milliliters. The abbreviation for milliliters is " mL ." Point to it in the equation below. If we add three more liters and a bottle that only has 100 milliliters left, what would be the sum? Combine the liters and milliliters separately:

$$
2 \mathrm{~L}+3 \mathrm{~L}=5 \mathrm{~L} \quad 500 \mathrm{~mL}+100 \mathrm{~mL}=600 \mathrm{~mL}
$$



O Read to the child: Complete the addition problems. Remember to write the unit abbreviations.
$3 \mathrm{~L} 300 \mathrm{~mL}+1 \mathrm{~L} 200 \mathrm{~mL}=4 \mathrm{~L} 500 \mathrm{~mL}$
$5 \mathrm{~L} 100 \mathrm{~mL}+4 \mathrm{~L} 400 \mathrm{~mL}=9 \mathrm{~L} 500 \mathrm{~mL}$


( Read to the child: Look at the group or set of circles below. There are 6 total circles, and 3 of the 6 are blue. The blue circles represent a part of the whole set. Look at the fraction to the right of the set. Point to the 6 representing how many are in the whole set. Point to the 3 representing the part of the set that is shaded.


Read to the child: For each group of airplanes below, circle the correct fraction for the specified set.


SMALL


O Above the Clouds Game: Take an airplane from the math box. Read to the child: Place an airplane on "START." Look at the group of purple and blue birds near your plane. Write how many birds are in the whole set under the fraction line. Then write the part specified in the box above the fraction line. Fly your plane clockwise in a circle and do the same for the other four groups.


Math 2 Answer Key


Math 2 Answer Key


Read to the child: Look at the fractions below. Each circle has an equal amount colored in. However, each circle is divided into a different number of parts, so the fractions are different. When fractions have different numerators and denominators but are equal to each other in the amount they represent, they are equivalent fractions. Equivalent means equal.



I $O$ Read to the child: Remember Victor, whose family owns a cheese factory? The cheese wheels below have been cut into different sections. He is trying to match up the cheese wheels that show equivalent fractions. Draw lines to connect equivalent fractions.

 1



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Math 2 Answer Key

twice. If needed, have the child use the chart.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| II | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

Mental Math
Have the child add 100 to each number.


O Read to the child: This monkey has collected bananas to eat. He collected three whole bananas and $\frac{1}{2}$ of a banana. He collected a mixed number of bananas. A mixed number includes a whole number and a fraction. Point to the mixed number in orange below. The 3 is the whole number representing the 3 whole bananas. The $\frac{1}{2}$ is the fraction representing half of a banana.


O Have the child circle the mixed numbers.


Math 2 Answer Key


Math 2 Answer Key

( Read to the child: The fraction below is represented in two different ways: as part of a whole and as part of a set. The blue colored sections represent the part.


O Read to the child: Do you remember Thomas? He has diabetes. He loves to play soccer. When he works hard and does his best in a game, he feels good.
His team played a game last Saturday and had so much fun. The team scored three goals, and Thomas was so excited that he scored one of those goals. We are going to write a fraction that represents the number of goals Thomas had compared to the total number of goals for his team. Write
a one on the top of the line for Thomas' one goal. This is the part. Color in one section of the circle on the left and one circle in the set on the right. Write a three below the line. This is the total or whole.


O Read to the child: In another game, Thomas scored two of the team's four goals for the game. Write the fraction below to show how many of the goals were Thomas' compared to the whole team. Remember the total number goes below the line and the part goes above. Then color in the part of a whole and part of a set.


O Read to the child: In their final game of the season, Thomas scored two of the three goals his team made in the game. Write the fraction below to show how many of the goals were Thomas' compared to the whole team. Remember the total number goes below the line, and the part goes above. Then color in the part of a whole and part of a set.



O Read to the child: Write fractions in each scoreboard to show how many of the goals were Thomas' compared to the whole team. Remember the total number goes below the line, and the part goes above. Then color in the part of a whole and part of a set.


Draw a line from each group of balls to the mixed number it represents.




O Read to the child: You have learned about many shapes in past lessons. Quadrilaterals are a type of polygon with only four sides. Quadrilaterals are shapes that are closed and have four straight sides and four corners. The word "quad-" means four. A rectangle is an example of a quadrilateral. Below are more examples of shapes that are quadrilaterals. Point to each shape and say its name.
Rome Examples of Quadrilaterals

Math 2 Answer Key


304
${ }^{304}$


Math 2 Answer Key


O Read to the child: Look at this beautiful lighthouse standing tall to warn sailors of danger. Point to the orange lines on the picture. They are running in different directions. One is vertical, and the other is horizontal. A vertical line reaches up and down, and a horizontal line lies flat, similar to the horizon (the place where the sky meets the earth). Draw a vertical line in the box by the lighthouse and a horizontal line in the box beneath the horizon.


O Read to the child: When two lines meet, they form a corner. The inside of the corner is called ANGLE an angle.
Below are three types of angles. When a
horizontal and vertical line meet, they form a right angle. An angle larger than a right angle is known as an obtuse angle. An angle smaller than a right angle is known as an acute angle.


Shapes have angles inside each corner. Look at this triangle. Point to the obtuse angle. Point to the two acute angles.


O Read to the child: Circle each angle in the shapes below and say the type of angle aloud.


Optional Activities: Place some tape on the ground under where a door would be when closed.

1. Open the door to different degrees and ask the child if the angle made by the door and the tape is a right, an obtuse, or an acute angle.
2. Have the child open the door to show the angle you say: right, obtuse, or acute.




O Read to the child: God has created a beautiful world full of wonders. Look at the snowflakes below. When you look at a snowflake through a microscope, you can see tiny crystal-like patternssymmetrical patterns. Symmetry is when an object has the same parts on both sides of a line.

Trace the vertical dashed line on the blue snowflake. This is called a line of symmetry, also known as a dividing line between two halves that are mirror images of each other. Because both sides are exactly the same, this snowflake has reflectional symmetry.

Some shapes have more than one line of symmetry. Trace the horizontal line on the blue snowflake. If you folded the snowflake vertically or horizontally on the lines, both sides would mirror each other. Draw a vertical or horizontal line of symmetry on the snowflakes below.


O Read to the child: Rotational symmetry is when an image still looks the same after it has been turned less than on full turn. Notice the snowflake below has been rotated 4 times and still looks the same each time. It has rotational symmetry.


Does this shape have rotational symmetry? When it is turned a quarter turn, the shape looks exactly the same as the first square (The blue line is to show the shape has turned.)


O Read to the child: Draw a line from the object to the type or types of symmetry it has. Cross it out if it has no symmetry.



Math 2 Answer Key

- Read to the child: Circle the pairs of line segments that are congruent.


Read to the child: Draw a congruent line segment next to each line segment using your ruler.
$\qquad$
$\qquad$

O Measure to Match Activity. Read to the child: Kayla has found a plan for a tree house. Kylie wants to copy the plan for herself. She has started but has a few lines left. Measure the red line segments in centimeters on Kayla's plan that are missing on Kylie's plan and write the number of centimeters in each box. Then follow the instructions below to re-create the line segments on Kylie's plan. Be sure all the line segments you create are congruent to the line segments on Kayla's plan.

1. Find a blue dot. Draw a vertical line segment under this blue dot to match the length of the original line segment in the same position. Continue with the other blue dots.
2. Find a red dot. Draw a horizontal line segment to the right of this red dot to match the length of the original line segment in the same position. Continue with the other red dots.
3. These line segments have created many angles. Can you find one of each type of angle: right, obtuse, and acute? If needed, help the child with the acute angles and obtuse angles, which can be found in the roof.




Read to the child: Just like line segments, shapes can be congruent, which means they are the exact same shape and size. Similar shapes have the same shape but not necessarily the same size. The squares on the left are congruent and similar, and the squares on the right are only similar.


Same Shape, Same Size


O Read to the child: Draw lines from the pairs of shapes to the correct labels. Congruent shapes have the same shape and size. Shapes that are the same but are different sizes are not congruent.


O Read to the child: Using the grids as guides, draw shapes that are similar to the shapes given. Similar shapes always have the same shape, but their sizes may be different


Read to the child: Using the grids as guides, draw shapes that are congruent to the shapes given. Congruent shapes have the same shape and size.



Math 2 Answer Key


O Read to the child: Three-dimensional shapes are shapes that are solid and not flat. We often refer to them as 3D shapes. The shapes below are examples of three-dimensional shapes. Point to each shape and say
 its name.
A two-dimensional, flat shape, such as a square, is often defined by the number of sides or lines making up the shape. A face is a flat surface on a solid. A square pyramid has four triangular faces and one square face on the bottom. How many faces does a cube have? [6] How many faces does a cylinder have? [2] A cone only has one face-the circle at the bottom. A sphere does not have any faces.

- Read to the child: Find and point to the following shapes on the sandcastle below.

- Read to the child: Find the hidden geometric shapes in the picture on the next page. Write the grid coordinates for their locations (for example, A4).



Math 2 Answer Key


○ Have the child cut out the shapes at the end of this lesson prio to beginning the lesson. Read to the child: Take a red rectangle that you cut out. How many of the blue squares do you think will fit into this rectangle without gaps or overlapping at all? Place the blue squares over the rectangle. These two squares make one red rectangle.
When we use two or more shapes to make a new shape, it is
a form of geometric construction. Look at the images below.

$$
\text { Construct a copy of each using the shapes you cut out from page } 323 .
$$



O Read to the child: Name the shapes used to create the constructed shapes below. When you determine the individual shapes of a constructed shape, it is a form of geometric deconstruction.


O Read to the child: We are going to race to create the pictures below. The first person to create each picture draws an $X$ in the scoreboard below. The first person to have three $X s$ wins.



○ Take the rocket from the math box. Remove the stand if it's attached. Read to the child: Place your rocket on the blue box. Without turning it, slide it over to the green box.

Place your rocket on the circle so the base of the rocket touches the small red dot. Now turn the rocket so the base touches the purple dot.

Place your rocket to the left of the line with the base touching the line. Then leave the base on the line and flip the rocket over the line.


- Read to the child: The changes you made to the position of your rocket are known as geometric transformations. We will cover three different transformations in this lesson. The rockets below are showing the changes you made. Point to each one and say the name of the transformation aloud


Read to the child: Draw a line from each example to the type of transformation it shows


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## ๑.0.. INDEPENDENT REVIEW ...6 <br> Fill in the parts to represent the given fraction. <br> Write the addition problem and multiplication problem shown by each array.




| 2oo. INDEPENDENT REVIEW |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Write the correct time in the blue box if you start at 6 PM. |  | Fill in the parts to represent the given fraction. | Write the addition problem and multiplication problem shown by each array. |  |  |
| 1 HALF HOUR | 5:30 PM | $\bigcirc \bigcirc$ | Addit | roblem: 10 | $10=20$ |
|  |  |  | Multip | on Problem: 2 | 10 = 20 |
| 2 HOURS FROM NOW | 8:00PM | PART OF A SET | 0000000000 0000000000 |  |  |
| 1 hour ago | 5:00 PM | - $\left(\frac{2}{3}\right.$ | Addition Problem: $5+5=10$ |  |  |
|  |  |  | Multip | on Problem: 2 | 5 $=10$ |
|  | 7:00 PM |  | $\times \times \times \times \times$ |  |  |
| 3HOURS FROM NOW | $9: 00$ PM | PART OF A WHOLE | Complete the addition problems. |  |  |
| Draw a line from each 3D shape to its name. |  |  | $8+4+9=21$ |  |  |
| $\bigcirc$ |  | $\square$ | $7+11+13=\underline{31}$ |  |  |
|  |  | 65 | 26 | 9 |
|  |  |  |  | 35 | 38 | 72 |
| Rectangular Prism | Cylinder | Cone Sphere | + 51 | +45 <br> 109 | + 3 |
|  |  |  | 151 | 109 | 207 |


Multiplication Problem: $2 \times 5=10$
$\times \times \times \times \times$
$\times \times \times \times \times$

Complete the addition problems.
$8+4+9=\underline{21}$
$7+11+13=$ 31

38
97
35
$\begin{array}{r}+45 \\ +109 \\ \hline 207\end{array}$

Math 2 Answer Key


Read to the child: Look at the dinosaur dig site on the next page. Each dinosaur discovered is roped off. The paleontologists need to know the total length of rope to use around each site. They need to know the perimeter, which is the distance around a 2D shape. What does perimeter mean? [the distance around a 2 D shape] To find the perimeter of an object, we need to add the lengths of every side. Look at the rectangle below. The two longer sides are each 4 inches long. The shorter sides are each 1 inch long.


To find the perimeter, we need to add together the lengths of every side. Point to each number in the equation below, and then point to the side it represents on the rectangle in the previous column. The rectangle has a perimeter of 10 inches.

$$
4 \mathrm{in}+1 \mathrm{in}+4 \mathrm{in}+1 \mathrm{in}=10 \mathrm{ir}
$$

Read to the child: For each shape below, write the lengths of every side in the blue boxes. Then write the total in the orange box.


328



|332


Math 2 Answer Key


O Read to the child: When we measure the perimeter of something, we measure the total length of the sides around the outside edges. This is helpful when, for example, we want to build a fence around a yard. But how do we know how much grass we would need to put inside the fence? We need to calculate the area. The space inside a 2D shape is called the area. Look at the blue rectangle below on the left. To figure out how much space is inside the rectangle, we can cover it with squares as shown in the rectangle on the right and count them. Each square is called a square unit.


Count the individual square units in the blue rectangle.
The area of the rectangle is 15 square units. Finding the area means you are finding the number of square units needed to cover the 2D shape. Write the number of square units the green and orange shapes have.


The space inside a 2D shape is called the area.

O Read to the child: Draw a line from each shape to its area.


O Aquarium Areas Activity. Read to the child: Count the square units on each fish tank on the next page to find the area. Match the area to the letter below to answer the riddle.

What is the most musical part of a fish? Its . . .



$\bigcirc$ Read to the child: You learned from the last lesson that area is the space inside a 2D shape. Find the area of this rectangle by counting the square units. [12]

Counting each square unit is one way to find area, but
 there is a quicker way. The square units below show the columns (vertical stacks of square units) of the rectangle above pulled apart. We can now easily see that each of the four columns has three boxes. Skip count by $3+3+3+3$ threes to find the area.
 How many times did you add 3 together? Yes, 4 times. You added 3 s (for the number in each column) four times (for the number of columns).

Look at the orange rectangle. How many square units are in each column? [2] How many columns are there? [4] Skip count by 2 s four times to find the area of this rectangle. 8


O Read to the child: We are going to skip count to find the area of the rectangles on the robots. The number of blue boxes represents the number of columns. Write the number of square units in each column in each blue box, and then skip count to find the answer. Write it in the orange box.

( Read to the child: Find the area of each blue shape on the robot by using the same steps as before. On scratch paper, write the number of square units in each column and skip count by the number of columns.


Optional Activity. Using grid or plain paper, have the child create his or her own robot and find the area of each square or rectangle on the robot.
Fill in the circle that shows the most reasonable weight of each item.

| 1 ounce is about the weight of a pencil. |
| :---: |
| 1 pound $=16$ ounces $\quad$ I $\quad 1$ ton $=2,000$ pounds |

Flower
3 tons
8 pounds
less than one
ounce
Camera
1 ton
60 pounds
14 ounces
Fill in the circle that shows the most reasonable weight of each item.




Math 2 Answer Key

line going up until you reach the horizontal line point $A$ is sitting on. The second coordinate for point $A$ is 2 . Together $(3,2)$ the coordinates are $(3,2)$. If you told someone these coordinates, he or she would follow the same directions and end up at point $A$.

O Read to the child: Write the coordinates for the points on the coordinate graph below. Remember to go horizontally first and then vertically.


- Read to the child: Use the coordinates below to plot points G-L on the coordinate graph above. Connect the dots in alphabetical order, connecting $L$ to $A$ at the end, to reveal a picture.
G $(7,7)$
I $(6,4)$
$K(3,3)$
H(7, 2)
J $(5,3)$
$\llcorner(2,4)$



$$
\begin{aligned}
& A(2,1) \\
& B(5,2) \\
& B(1,5) \\
& D(7,5)
\end{aligned}
$$

$$
E(6,4) \quad F(4,7) \quad G(8,3)
$$



## Student

## Z ASSESSMENT WITH PARENT／TEACHER $\%$

Mark the triangle for any items the child completes incorrectly．

Have the child give the answers to these doubles addition facts aloud：

$$
\begin{aligned}
& 2+2=43+3=64+4=85+5=10 \\
& 6+6=127+7=148+8=169+9=18
\end{aligned}
$$

$\Delta$ Have the child skip count by 50 s from 700 to 1,000 ．
Have the child skip count by 3 s from 3 to 30 ．
$\Delta$ Have the child write number words for 13 to 19 on the whiteboard．（Note：Number words for 1 to 12 should have been mastered in Math 1．）

Have the child give you bills from the math box to equal the tally marks，using the fewest number of bills．

## 州州州州州州州州II

[^1]
## $\alpha \quad$ ASSESSMENT WITH PARENT/TEACHER. CONTINUED

Mark the triangle for any items the child completes incorrectly.

Have the child give you 86 cents using the fewest coins from the math box
$\Delta$ Have the child tell you how many are in a dozen [12] and half dozen. [6]
On the whiteboard have the child create and complete a problem for the story. Dan had $\$ 4.25$. He spent $\$ 2.15$. How much money does he have left? $\quad \$ 4.25-\$ 2.15=\$ 2.10$
$\Delta$ On the whiteboard have the child create and complete a problem for the story. Sue had $\$ 52.45$. She earned $\$ 3.43$ more. How much money does she have in total?
$\Delta$ Have the child set the clock from the math box to the
following times: midnight, 1:17, 3:47, noon.
Have the child count backward from 1,000 to 980 .
Have the child tell you all the odd numbers from 90 to 101.

## Additional Practice

Complete the sections above for which the triangle is marked.

PLACE VALUE AND EXPANDED FORM TO THE THOUSANDS

Write the expanded form of the number.


Write the standard form represented by the base-10 blocks in the orange box. Write the expanded form in the black boxes.


Write the expanded form of the number.


Write the standard form represented by the base-10 blocks in the orange box. Write the expanded form in the black boxes.


- Jenny Phillips


## ADDING AND SUBTRACTING NUMBERS (WITH CARRYING/BORROWING/ REGROUPING)

Complete the problems.

| 198 | 61 | 12174 |
| ---: | ---: | ---: |
| +243 |  |  |
| 641 | -24 | +498 |
| 48 | 772 |  |

## $\geq$ Additional Proctice

Complete the problems.

| 51 | 11 | 41 |
| ---: | ---: | ---: |
| 60 | 546 | 52 |
| $\frac{-46}{14}$ | +276 | $\frac{-23}{222}$ |

## \% ORDINAL POSITIONTO 12 ह

Fill in the missing ordinal numbers.
$\square$

| $5+h$ | $6+h$ | $7+h$ | $8+h$ |
| :--- | :--- | :--- | :--- |


| $9+h \quad 10+h$ | $11+h$ | $12+h$ |
| :---: | :---: | :---: | :---: |
| $\square \square$ Additionol Proctice |  |  |

Fill in the missing ordinal numbers.


| $9+h$ | $10 t h$ | $11+h$ | $12+h$ |
| :--- | :--- | :--- | :--- |

ROUNDING WITH SUBTRACTION AND ADDITION

Complete the addition or subtraction problem and write the answer rounded to the nearest 10 .


Complete the addition or subtraction problem and write the answer rounded to the nearest 10 .



Write the elapsed time in the blue box.


Write the end time in the blue box. Include AM or PM.


## $\geq$ Additional Proctice

Write the elapsed time in the blue box.


## \%ORDER AND COMPARE FRACTIONS/ § GREATER THAN. LESS THAN. EQUAL ${ }^{\circ}$

Write ordinal numbers below the pictures to put them in order from the greatest amount shaded to the least.


Draw a greater than, less than, or equal sign between the two fractions.


## Additional Proctice

Write ordinal numbers below the pictures to put them in order from the greatest amount shaded to the least.

$3 r d$


2nd


Draw a greater than, less than, or equal sign between the two fractions.


MULTIPLICATION 8

Write the addition problem and multiplication problem shown by the array.

| Addition Problem: | $8+8+8=24$ |
| :--- | :---: |
| Multipication Problem: | $3 \times 8=24$ |
| 00000000 |  |
| 00000000 |  |
| 00000000 |  |

$\therefore \quad$ Additional Practice

Write the addition problem and multiplication problem shown by the array.


## Good Beantiful

goodandbeautiful.com


[^0]:    - On which planets would you weigh the least?
    - How much less would you weigh on Venus than on Earth? 5 Ib

[^1]:    $\Delta$ Have the child skip count backward from 100 to 25 by 5 s．
    $\Delta$ Set the clock from the math box to $4: 15$ ．Have the child tell you two ways to say the time．［4：15 and quarter after 4］
    $\Delta$ Set the clock from the math box to $12: 30$ ．Have the child tell you two ways to say the time．［12：30 or half past 12］

