**Place Value**

1. The value of a digit determined by its location in a number is called ____.
   - A. regrouping
   - B. counting
   - C. place value

2. A way to write numbers using digits is called ____.
   - A. standard form
   - B. word form
   - C. expanded form

   - A way to write numbers by showing the value of each digit is called ____.
   - A. word form
   - B. expanded form
   - C. standard form

---

**When he goes golfing, Mr. Putter wears two pairs of pants in case he gets a hole-in-one! Today, he swung his golf club 147 times to complete the game. What digit is in the tens place in 147?**

- A. 1
- B. 4
- C. 7
- D. 14

---

**Peggy and Polly are best friends - they’re like two peas in a pod! Even their names begin with P! They love to eat peas, too. Together, they ate 127 peas. Yes, they really counted! Which digit is in the ones place in 127?**

- A. 7
- B. 2
- C. 20
- D. 1
Candie Sweet helped to get the candy stand ready for the school festival. She filled 4 jars with candy treats. Each jar held 100 candy treats. She had 7 candy treats left over. How many candy treats did Candie have in all to sell?

A. 47 candy treats  
B. 470 candy treats  
C. 407 candy treats  
D. 400 candy treats

Cindy is counting the number of paper clips in her paper clip chain. Which number shows 5 hundreds, 7 tens, and 2 ones?

A. 725  
B. 527  
C. 572  
D. 275

To join equal groups, such as 3 groups of 2, is to ____.

A. divide  
B. subtract  
C. multiply

Numbers that are multiplied together are called ____.

A. addends  
B. products  
C. factors

The answer to a multiplication problem is called the ____.

A. sum  
B. product  
C. difference
MULTIPLICATION

Liam will earn a giant Book Worm trophy when he reads 6 stacks of books. Each stack has 10 books. How many books does Liam need to read to earn the trophy?

- A. 6 books
- B. 10 books
- C. 66 books
- D. 60 books

Owen is building a tower of blocks that will stretch to the moon! He plans to use 7 boxes of blocks. There are 10 blocks in each box. How many blocks will be in Owen’s tower?

- A. seventy blocks
- B. seventy-seven blocks
- C. seventy-ten blocks
- D. ten blocks

MULTIPLICATION

Ms. Pink has 8 boxes of crayons. Each box has 10 crayons in it. All the crayons are Ms. Pink’s favorite color – pink! How many crayons does Ms. Pink have in all?

1. What is a way to solve this problem?
   - A. Skip count the crayons by 8.
   - B. Skip count the crayons by 10.
   - C. Subtract the number of crayons from the number of boxes.

2. Which number sentence could you use to find the total number of crayons that Ms. Pink has in all?
   - A. 10 + 8
   - B. 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10
   - C. 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8

3. How many crayons does Ms. Pink have in all?
   - A. 80 crayons
   - B. 10 crayons
   - C. 8 crayons
MULTIPLICATION FACTS

2 x 2 =
- A. 2
- B. 4
- C. 22
- D. 8

3 x 4 =
- A. 6
- B. 9
- C. 12
- D. 18

4 x 7 =
- A. 28
- B. 11
- C. 47
- D. 21

4 x 8 =
- A. 48
- B. 12
- C. 36
- D. 32
MULTIPLICATION FACTS

6 x 7 =

- A. 67  
- B. 42  
- C. 13  
- D. 56

7 x 9 =

- A. 79  
- B. 61  
- C. 63  
- D. 16

MATH VOCABULARY

A number that names a part of a whole object or a set of objects is called a ___.

- A. fraction
- B. digit
- C. whole number

A fraction that names one out of two equal parts is called ___.

- A. one-third
- B. one-half
- C. one-fourth

A fraction that names one out of four equal parts is called ___.

- A. one-fourth
- B. one-half
- C. one-third
**Math Vocabulary**

The part of the fraction below the fraction bar that tells how many parts the whole is divided into is called the ___.

- A. dividend
- B. numerator
- C. denominator

The part of the fraction above the fraction bar that tells how many parts are being counted is called the ___.

- A. product
- B. numerator
- C. denominator

A fraction in which the numerator is greater than or equal to the denominator is called ____.

- A. a wrong fraction
- B. a whole fraction
- C. an improper fraction

---

**Fractions**

Chris and three friends shared equal parts of a peanut butter and lettuce sandwich. What fraction of the sandwich did Chris eat?

1. Which equation shows how many people ate a part of the sandwich?
   - A. $3 + 1 = 4$
   - B. $4 + 1 = 5$
   - C. $1 + 1 = 2$

2. What fraction of the sandwich did Chris eat?
   - A. $\frac{4}{5}$
   - B. $\frac{1}{4}$
   - C. $\frac{1}{2}$

3. Which picture of the sandwich is missing the fraction of the sandwich Chris ate?
   - A.
   - B.
   - C.
**Elapsed Time**

Kimya’s giraffe-riding lesson started at 3:35 P.M. Her lesson was 1 hour long. What time did her lesson end?

1. Which clock shows the time Kimya’s riding lesson started?
   - A. 3:35 P.M.
   - B. 4:35 P.M.
   - C. 1:00 P.M.

2. How many minutes passed during Kimya’s lesson?
   - A. 15 minutes
   - B. 30 minutes
   - C. 60 minutes

3. What time did Kimya’s lesson end?
   - A. 3:35 P.M.
   - B. 4:35 P.M.
   - C. 1:00 P.M.

Jeremy the Whale’s morning swim class began at 8:45 and ended at 9:30. How many minutes long was his class?

1. Which shows the best way to use skip counting to determine the answer?
   - A. Count clockwise 1 minute at a time.
   - B. Skip-count clockwise 5 minutes at a time.
   - C. Skip-count counter-clockwise 5 minutes at a time.

2. How many minutes long was Jeremy’s swim class?
   - A. 15 minutes
   - B. 45 minutes
   - C. 1 hour 15 minutes
**Elapsed Time**

On school days, Ben gets up at 8:00. On Saturdays, he gets up 1 hour earlier to watch *The Adventures of Mr. Clock*. What time does Ben get up on Saturdays?

- A. 8:00
- B. 7:00
- C. 9:00
- D. 6:00

Lucky the Lizard started licking a lollipop at 2:00. He finished licking the lollipop 2 hours later. What time was it when he finished?

- A. 5:00
- B. 1:00
- C. 4:00
- D. 6:00

**Weight (Customary Units)**

A unit for measuring the weight of small objects, such as a slice of bread, is called an ____.

- A. ounce
- B. inch
- C. estimate

A unit for measuring the weight of medium-to-large objects, such as a child, is called a ____.

- A. pound
- B. ton
- C. yard

A unit for measuring the weight of very large objects, such as an airplane, is called a ____.

- A. pound
- B. foot
- C. ton
Which unit of measure would be best to measure the weight of a rocket?

- A. ounce
- B. pound
- C. ton

Which unit of measure would be best to measure the weight of a refrigerator?

- A. ounce
- B. pound
- C. foot

Which unit of measure would be best to measure the weight of a letter?

- A. ounce
- B. pound
- C. ton

Aaron measured the temperature of a bowl of gummy bear soup. Yum-Yum! The thermometer shows the temperature of the soup. In degrees Fahrenheit, what was the temperature of the soup, rounded to the nearest ten degrees?

1. What unit of measure is being used in this problem?
   - A. degrees Fahrenheit
   - B. degrees Celsius
   - C. pounds

2. To what number is 154 closest?
   - A. 160
   - B. 150
   - C. 140

3. What was the temperature of Aaron's soup to the nearest ten degrees?
   - A. 150 degrees Fahrenheit
   - B. 160 degrees Fahrenheit
   - C. 70 degrees Fahrenheit
**PERIMETER**

When you measure the **perimeter** of something, you are measuring ____.

- A. the amount of space a solid figure occupies
- B. the number of square units that cover a flat surface
- C. the distance around the outside of a figure

Meow! Jarret’s cat does not like to be bothered when it is walking the **perimeter** of the living room. How far does Jarret’s cat travel when it walks around the perimeter of the living room once?

- A. 32 feet
- B. 24 feet
- C. 64 square feet
- D. 64 feet

**PERIMETER AND AREA**

The distance around a figure is called the ____.

- A. area
- B. shape
- C. perimeter

The amount of space that covers a flat surface is called the ____.

- A. area
- B. shape
- C. perimeter

Square units, such as square inches or square feet, are used to measure ____.

- A. perimeter
- B. area
- C. length
Bobby is going to bust some moves on his new stage. A rectangular stage has been covered with 20 square tiles. The stage is 5 feet long and 4 feet wide. What is the perimeter of the stage?

1. What is the problem asking you to find?
   - A. the number of tiles needed to cover the stage
   - B. the area inside of the stage
   - C. the distance around the edge of the stage

2. Which number sentence shows a way to find the perimeter of the stage?
   - A. 5 x 4
   - B. 5 + 5 + 4 + 4
   - C. 5 + 4

3. What is the perimeter of the stage?
   - A. 18 square feet
   - B. 18 feet
   - C. 20 square feet

The table below shows the number of students in each third grade class at Wolfe Elementary School. Ms. Riding’s class has 20 students. How many ☺️’s should be shown for Ms. Riding’s class?

<table>
<thead>
<tr>
<th>Teacher</th>
<th>Mr. Reed</th>
<th>Ms. Riding</th>
<th>Ms. Hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>☺️☺️☺️☺️☺️</td>
<td>?</td>
<td>☺️☺️☺️☺️</td>
</tr>
</tbody>
</table>

Each ☺️ stands for 5 students.

1. How many students does one ☺️ represent?
   - A. 10 students
   - B. 20 students
   - C. 5 students

2. Which shows the number of students in Ms. Riding’s class?
   - A. 5 + 5
   - B. 5 + 5 + 5 + 5
   - C. 5 + 5 + 5

3. How many ☺️’s should be shown for Ms. Riding’s class?
   - A. 20 ☺️’s
   - B. 4 ☺️’s
   - C. 5 ☺️’s
Data and Statistics

Jack E. Robinson collects baseball cards. He buys a few new cards each month. The graph shows how many cards Jack bought in the spring. In which month did he buy the fewest baseball cards?

1. How can you tell if something is more or less on this graph?
   - A. You cannot tell.
   - B. Compare the heights of the bars.
   - C. Check the weather for the 3 months shown.

2. Which month has the shortest bar?
   - A. March
   - B. April
   - C. May

3. During which month did Jack buy the fewest baseball cards?
   - A. April
   - B. March
   - C. May

Sunflower the clown gave away balloons on each day of a carnival. On Friday, Sunflower gave away 12 balloons. On Saturday, she gave away 14 balloons. And on Sunday, she gave away 6 more balloons than she gave away on Saturday. Which tally chart correctly shows the number of balloons she gave away each day?

1. How many balloons are represented by this: 
   - A. 1 balloon
   - B. 5 balloons
   - C. 10 balloons

2. Which equation shows how many balloons Sunflower gave away on Sunday?
   - A. 12 + 14 = 26
   - B. 14 + 6 = 20
   - C. 13 + 12 = 25

3. Which tally chart correctly shows how many balloons the clown gave away?
   - A. Chart 1
   - B. Chart 2
   - C. Neither chart shows how many balloons the clown gave away.
Comparing Whole Numbers

1. To find the book with the fewest pages, which place value should you compare first?

- A. the ones place
- B. the tens place
- C. the hundreds place

2. Which of these numbers has a digit in the hundreds place with the least value?

- A. 175
- B. 207
- C. 273

3. Which book has the fewest pages?

- A. the book about dinosaurs
- B. the book about aliens
- C. the book about tree stumps

On Monday, an airplane flew 3,536 miles to Toadtown, California. On Tuesday, it flew 2,235 miles to Candy Town, Ohio. And on Wednesday, it flew 3,502 miles to New Igloo, Alaska. On which day did the plane fly the most miles?

- Monday: 3,536 miles
- Tuesday: 2,235 miles
- Wednesday: 3,502 miles

1. Which two days have the same number in the thousands place?

- A. Monday and Tuesday
- B. Monday and Wednesday
- C. Tuesday and Wednesday

2. Which is true?

- A. 2,235 > 3,536
- B. 3,502 > 3,536
- C. 3,502 < 3,536

3. On which day did the plane fly the most miles?

- A. Monday
- B. Tuesday
- C. Wednesday
**Comparing Whole Numbers**

What’s Wanda the Witch’s favorite subject in school? Spelling, of course! She could spell 5,671 words in second grade and knew 9,713 by the end of third grade. Which of the following is true?

- A. $9,713 > 5,671$
- B. $9,713 < 5,671$
- C. $5,671 = 9,713$
- D. $5,671 > 9,713$

Which of the following number sentences is not true?

- A. $1,098 > 1,089$
- B. $1,890 < 1,980$
- C. $8,901 > 8,109$
- D. $9,810 < 9,108$

---

**Multiplication**

Factors are _____.

- A. numbers that are multiplied together to equal a product
- B. numbers that are added together to equal a sum
- C. parts of a whole or parts of a group, such as $\frac{1}{2}$

Craig brought chocolate chip cookies to school to share for his birthday. He gave 3 cookies to each of his 9 classmates. He wrote this problem to show how many cookies he gave out: $3 \times 9 = 27$

What are the factors in Craig’s problem?

- A. 3 only
- B. 9 and 27
- C. 2 and 7
- D. 3 and 9
MULTIPLICATION

Macon Doe is baking triple chocolate cookies for the school bake sale. He has 4 bowls. He cracked 3 eggs in each bowl. How many eggs did Macon crack altogether?

1. Which operation can you use to solve this problem?
   - A. subtraction
   - B. division
   - C. multiplication

2. Which does NOT show a way to solve this problem?
   - A. $3 + 3 + 3 + 3$
   - B. $4 + 3$
   - C. $4 \times 3$

3. How many eggs did Macon crack altogether?
   - A. 7 eggs
   - B. 12 eggs
   - C. 8 eggs

Sally is stuck in a sticky situation. Sally has 8 packs of gum. There are 5 pieces of gum in each pack. How many pieces of gum does Sally have in all?

1. Which number sentence shows a way to solve the problem?
   - A. $5 + 5 + 5 + 5 + 5 + 5 + 5$
   - B. $5 + 3$
   - C. $5 + 5 + 3$

2. To solve this problem, you could skip count by ___.
   - A. 5s
   - B. 2s
   - C. 10s

3. How many pieces of gum does Sally have in all?
   - A. 40 pieces of gum
   - B. 8 pieces of gum
   - C. 13 pieces of gum
MATH BOOK 1
Grade 3
at HOME
by Educational Insights

**Division Facts**

5) 40

- A. 8
- B. 6
- C. 35
- D. 7

2) 6

- A. 12
- B. 4
- C. 8
- D. 3

7) 63

- A. 7
- B. 9
- C. 6
- D. 70

3) 12

- A. 4
- B. 15
- C. 9
- D. 36
**DIVISION FACTS**

1. \( \frac{40}{8} \)
   - A. 48
   - B. 32
   - C. 5
   - D. 8

2. \( \frac{36}{9} \)
   - A. 8
   - B. 4
   - C. 45
   - D. 7

**FRACTIONS**

1. \( \frac{2}{4} \)
   - A. [Image of fraction]
   - B. [Image of fraction]
   - C. [Image of fraction]
   - D. [Image of fraction]

2. \( \frac{3}{4} \)
   - A. [Image of fraction]
   - B. [Image of fraction]
   - C. [Image of fraction]
   - D. [Image of fraction]
**Fractions**

3/4

- A. Shell
- B. Rectangles
- C. Starfish

3/5

- A. Hearts
- B. Stars
- C. Flags

**Comparing Fractions**

Which fraction is greater?

- A. 1/3
- B. 1/6

Which fraction is greater?

- A. 1/2
- B. 1/3

Which fraction is greater?

- A. 1/4
- B. 1/3

Which fraction is greater?

- A. 1/2
- B. 1/4
Comparing Fractions

Which fraction is greater?

1. \( \frac{1}{8} \)  
   A. \( \frac{1}{8} \)  
   B. \( \frac{1}{4} \)

2. \( \frac{1}{6} \)  
   A. \( \frac{1}{6} \)  
   B. \( \frac{1}{2} \)

3. \( \frac{1}{3} \)  
   A. \( \frac{1}{3} \)  
   B. \( \frac{2}{3} \)

4. \( \frac{2}{4} \)  
   A. \( \frac{2}{4} \)  
   B. \( \frac{1}{4} \)

Which fraction is greater?

5. \( \frac{1}{8} \)  
   A. \( \frac{1}{8} \)  
   B. \( \frac{1}{2} \)

6. \( \frac{1}{5} \)  
   A. \( \frac{1}{5} \)  
   B. \( \frac{1}{8} \)

7. \( \frac{4}{8} \)  
   A. \( \frac{4}{8} \)  
   B. \( \frac{6}{8} \)

8. \( \frac{5}{6} \)  
   A. \( \frac{5}{6} \)  
   B. \( \frac{2}{6} \)
Uni Corn and her dad, Pop Corn, spent 3 hours chasing falling stars. If they finished their chase at 12:00 midnight, what time did they begin?

A. 3:00 A.M.  B. 1:00 A.M.
C. 8:00 P.M.  D. 9:00 P.M.

Chipper spent 5 hours gathering acorns for his girlfriend, Tulip. He finished at 6:00. What time did he begin gathering acorns?

A. 11:00  B. 4:00
C. 7:00  D. 1:00

Suma went horseback riding to round up the wild giraffes in Oklahoma. She started riding at 3:45 and didn’t stop until 6:00. How long was she riding?

A. 3 hours  B. 2 hours and 30 minutes
C. 2 hours and 15 minutes  D. 2 hours and 45 minutes

It took Jack 3 hours and 15 minutes to climb to the top of a beanstalk. If Jack got to the top at 6:30, what time did he begin to climb?

A. 3:15  B. 3:00
C. 4:45  D. 3:45
**Elapsed Time**

It took Rapunzel 2 hours and 10 minutes to wash her hair. If she finished at 8:45, what time did she begin?

- A. 6:35
- B. 6:55
- C. 10:55
- D. 7:35

Tiny Tina’s giant kite lifted her off the beach and carried her along the shore for 23 minutes before she gently landed in the sand at 5:43. What time did Tina lift off the ground?

- A. 5:22
- B. 6:08
- C. 5:36
- D. 5:12

**Weight/Mass (Metric Units)**

A unit for measuring the weight of small objects, such as a slice of bread, is called a ____.

- A. gram
- B. kilogram
- C. meter

A unit for measuring the weight of medium-to-large objects, such as a child, is called a ____.

- A. gram
- B. kilogram
- C. liter

A unit for measuring the weight of very large objects, such as an airplane, is called a ____.

- A. gram
- B. kilogram
- C. metric ton
WEIGHT/MASS (METRIC UNITS)

Which unit of measure would be best to measure the weight of a rocket?

A. gram  
B. kilogram  
C. metric ton

Which unit of measure would be best to measure the weight of a refrigerator?

A. gram  
B. kilogram  
C. centimeter

Which unit of measure would be best to measure the weight of a letter?

A. gram  
B. kilogram  
C. metric ton

TEMPERATURE (CELSIUS)

Mike’s dad told him that if the temperature is 27 degrees Celsius or higher, they will go to Splash World water park. The thermometer shows the temperature outside. Will they go to the water park?

1. There are 4 small lines between 20° and 30° Celsius. What do those lines represent?

A. 21°, 22°, 23°, 24°  
B. 22°, 24°, 26°, 28°  
C. 21°, 23°, 25°, 27°

2. The temperature is shown between 24° and 26° Celsius. What is the exact temperature on the thermometer?

A. 27 degrees Celsius  
B. 25 degrees Fahrenheit  
C. 25 degrees Celsius

3. Is it hot enough to go to the water park?

A. Yes, they will go to the water park because the temperature is greater than 27° C.  
B. It’s impossible to know from the information given.  
C. No, they won’t go to the water park because the temperature is not at least 27° C.
If you are asked to find the area of something, you need to find _____.

- A. the length of two lines
- B. the number of square units that cover a flat surface
- C. the distance around the outside of a figure

Rohan loves his new puppy so much that he bought him a blanket to sleep on. The blanket is 4 feet long and 3 feet wide. What is the area of the blanket?

- A. 7 square feet
- B. 14 square feet
- C. 1 square foot
- D. 12 square feet

Sophie has a math book with a cover that is 6 inches long and 4 inches wide. What is the area of the cover of her math book?

1. How can you find the area of a surface?
   - A. length + length + width + width
   - B. length + width
   - C. length x width

2. Which number sentence could help you find the area of the cover of the math book?
   - A. 6 + 6 + 4 + 4
   - B. 6 x 4
   - C. 6 + 4

3. What is the area of the cover of the math book?
   - A. 6 square inches
   - B. 10 square inches
   - C. 24 square inches
**Area**

Eric is giving his friend a pet rock as a gift. He put the rock in a box that is the shape of a cube. Every side of the box has the same area. Each side of the box is 3 inches by 3 inches. What is the total area of the gift wrap?

1. How many sides are on the cube?
   - A. 8 sides
   - B. 6 sides
   - C. 4 sides

2. What is the area of one 3 inch by 3 inch square?
   - A. 9 square inches
   - B. 6 square inches
   - C. 12 square inches

3. What is the total area of the gift wrap?
   - A. 54 square inches
   - B. 36 square inches
   - C. 72 square inches

**Data and Statistics**

Veronica’s family went on a trip to search for Bigfoot. They drove 23 miles on Friday, rested on Saturday, and drove 36 miles on Sunday. They never did find Bigfoot – but they did see a purple dinosaur! How many miles did Veronica’s family drive in all?

1. On which day did Veronica’s family NOT drive?
   - A. Friday
   - B. Saturday
   - C. Sunday

2. Which operation should you use to solve the problem?
   - A. subtraction
   - B. multiplication
   - C. addition

3. How many miles did Veronica’s family drive in all?
   - A. 59 miles
   - B. 36 miles
   - C. 23 miles
Ms. Kitty asked all of her students which pet they like best. The graph shows the pets her students like best. How many more students like cats than like fish?

1. What are you asked to compare?

○ A. the height of the bar for students and the bar for pets
○ B. the height of the bar for fish and the bar for dogs
○ C. the height of the bar for cats and the bar for fish

2. Which number sentence shows a way to solve the problem?

○ A. 5 - 3
○ B. 7 - 3
○ C. 3 + 5

3. How many more students like cats than like fish?

○ A. 4 students
○ B. 3 students
○ C. 10 students

Dana loves to splash in mud puddles when it rains. Dana was very happy this week – it rained every day! Dana made a chart of the number of centimeters that it rained each day.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

Which day had the fewest centimeters of rain?

○ A. Mon.    ○ B. Wed.    ○ C. Thurs.

Which bar graph correctly shows the data from the chart?

○ A.  
○ B.  

Dana's Rain Chart

Dana's Rain Chart

Mon.  Tue.  Wed.  Thurs.  Fri.