

# My 4<sup>th</sup> Grade Summer Math Practice Booklet



Name \_\_\_\_\_

## Number Sense

1. Write “five tenths” as a fraction and as a decimal.

fraction \_\_\_\_\_ decimal \_\_\_\_\_

2. Write the number “four hundred sixty-seven thousand, three hundred twenty-one” using numbers instead of words.



\_\_\_\_\_

3. Round 675 to the nearest hundred. \_\_\_\_\_

4. List all the factors for the number 20. Remember, factors are numbers that you multiply together to get the given number. Hint: there are 6 factors for the number 20!

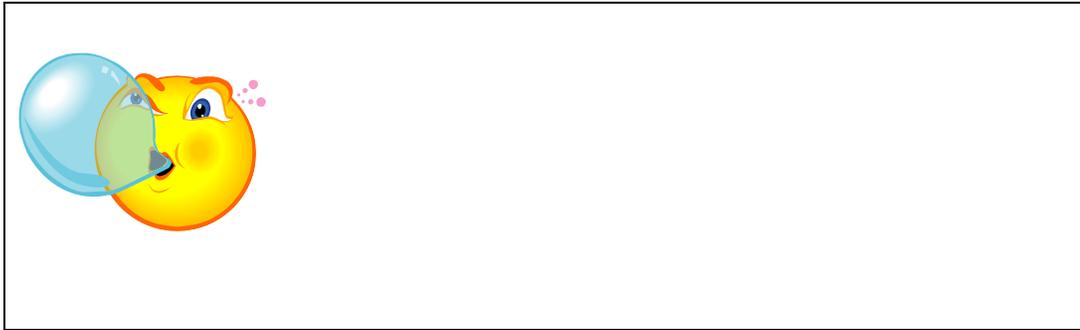
\_\_\_\_\_

5. Is the fraction  $\frac{8}{10}$  closest to 0,  $\frac{1}{2}$  or 1? \_\_\_\_\_

6. The distributive property is used to make math problems easier. If we were doing  $5 \times 47$ , we could do  $5 \times 40 + 5 \times 7$ . Give the answer to this problem using the distributive property. Then give the answer to this problem using regular multiplication. Are the answers the same?

$5 \times 40 + 5 \times 7 =$ _____ _____ + _____ = _____	$\begin{array}{r} 47 \\ \times 5 \\ \hline \end{array}$ Are they the same? _____
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7. A bus holds 20 people. There are 45 people waiting to catch the bus. How many buses will be needed? \_\_\_\_\_
8. Michael has 3 quarters, 2 dimes, and 3 nickels. He buys two packs of gum for \$0.45 each. How much money will Michael have left over? Show your work!



9. **Estimate** the result of adding  $\$3.97 + \$8.15$ . \_\_\_\_\_
10. When adding fractions they must have the same denominator (bottom number). You add the numerators (top numbers) together and keep the common denominator. Add the fractions below.

$$\frac{7}{9} + \frac{1}{9} = \frac{\quad}{9}$$

11. Show or explain how to do  $400 \div 10$  mentally.

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12. Hawa is having friends over. She purchased 4 boxes of ice cream bars as treats. Two of the boxes cost \$2.00 each. The other two boxes cost only \$1.50 each. How much did Hawa spend on the 4 boxes of ice cream bars total? Show your work!



13. Mr. Simmerman was adding up how much money he spent at the grocery store. His receipt was several inches long. Which method of computation would be best for Mr. Simmerman to use?
- mental math
  - pencil paper
  - calculator
14. Complete the following multiplication problem: 
$$\begin{array}{r} 376 \\ \times 5 \\ \hline \end{array}$$

### Measurement

15. A large pitcher holds 32 cups of water. There are 16 cups in one gallon. How many gallons does the large pitcher hold?



16. Perimeter is the distance around the outside of an object. Area is the amount of material it takes to cover a 2-D or 3-D object. Volume is the amount of space inside a 3-D object. Answer the following using the terms perimeter, area, and volume:

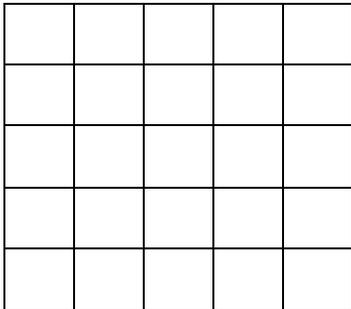
When carpeting the floor, you need to know the \_\_\_\_\_ of the room.

When filling a swimming pool, you need to know the \_\_\_\_\_ of the pool.

When putting a fence around the outside of your backyard, you would need to know the \_\_\_\_\_.

17. Which tool would you use to measure perimeter?  
a. gallon container  
b. tape measure  
c. 3-D centimeter cubes

18. Find the area of this grid. Area = \_\_\_\_\_  $\text{cm}^2$

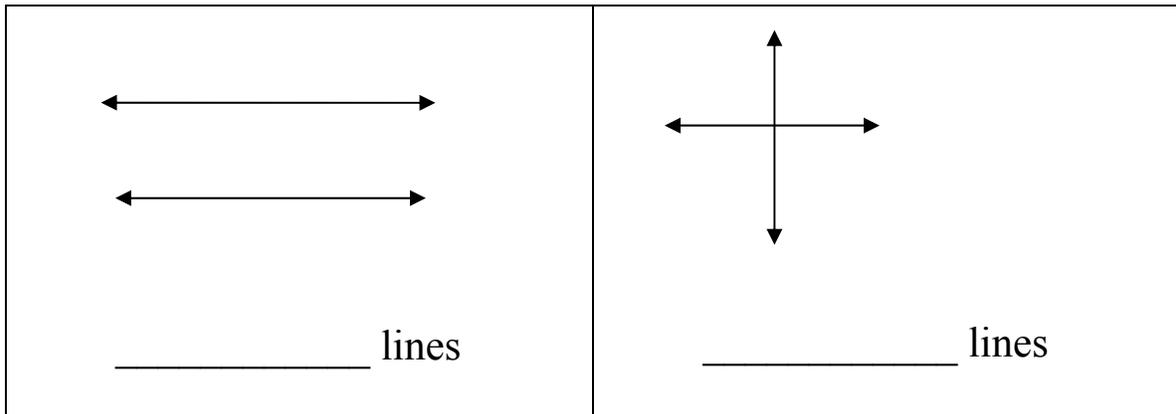


19. There are \_\_\_\_\_ quarts in one gallon.
20. There are 12 inches in one foot. How many inches are in 4 feet? \_\_\_\_\_



## Geometry and Spatial Sense

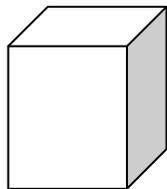
21. Identify these lines as parallel or perpendicular.



22. Write one similarity (same) and one difference for the following shapes.

Similarity \_\_\_\_\_

Difference \_\_\_\_\_

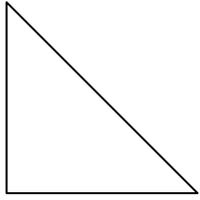


23. Give one way a square and a rectangle are the same and one way they are different.

Same: \_\_\_\_\_

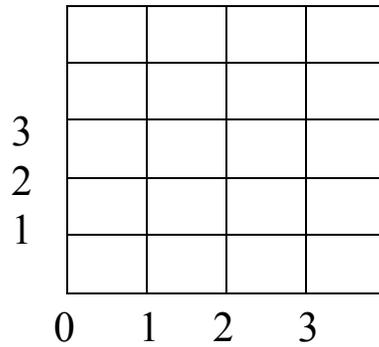
Different: \_\_\_\_\_

24. This triangle is a \_\_\_\_\_ triangle because it has one  $90^\circ$  angle.

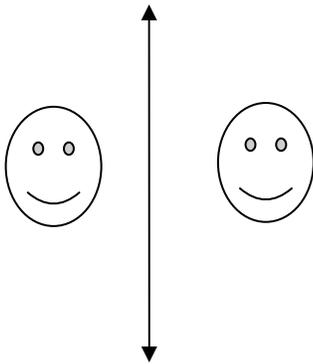


25. An exact location is called
- a. a line
  - b. a plane
  - c. a ray
  - d. a point

26. Plot the ordered pair (3, 1).



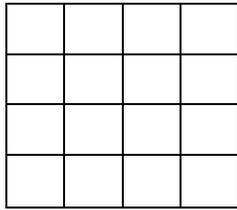
27.



This transformation is called a

\_\_\_\_\_.

28.



Find the perimeter of this shape.

\_\_\_\_\_ units

### Patterns, Functions, and Algebra

29. Identify the pattern and show what would come next in the sequence.



\_\_\_\_\_

30. Describe the rule for the pattern above.

\_\_\_\_\_  
\_\_\_\_\_

31. Identify the pattern and complete the table below.

x	y
2	10
3	15
4	_____
5	_____

32. Write the rule for the table above.

$y = \underline{\hspace{2cm}}$  times  $x$

33. Use a symbol ( $<$ ,  $>$ , **or**  $=$ ) to write the equation “ $x$  is less than 35”.

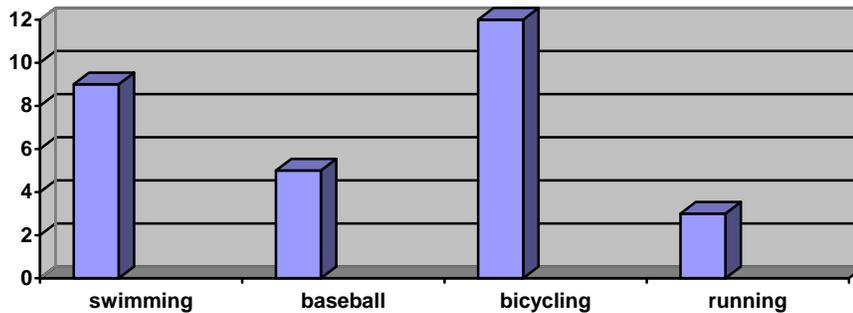
\_\_\_\_\_

34. If 3 multiplied by  $x = y$ , what happens to  $y$  when  $x$  gets larger? Does  $y$
- a. stay the same
  - b. get larger
  - c. get smaller

### Data Analysis and Probability

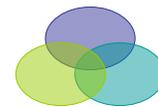
35. How could you find out your neighborhood friends favorite summer activity?
- a. do a survey and ask them
  - b. research it in a book
  - c. ask someone that lives with you

36. Kids Favorite Summer Activity



How many more kids like bicycling than baseball? \_\_\_\_

37. This diagram with overlapping circles is a way to show data



and is called a \_\_\_\_\_ diagram.

38. What type of graph is shown above in question #2?
- a. line graph
  - b. bar graph
  - c. pictograph



45. When tossing a number cube (dice), how likely is it to roll the number 7?
- a. likely
  - b. impossible
  - c. as likely as not
46. The weather forecast says there is a 90% chance of rain today and a 10% chance of rain tomorrow. Which day is rain likely, today or tomorrow?
- 



47. Mrs. Buty has 3 shirts (red, blue, and green) and 2 pair of shorts (black and blue) to choose from in her suitcase. List all the outfits she can make with these 3 shirts and 2 pair of shorts.



# Congratulations, you have finished your 4<sup>th</sup> Grade Summer Review Booklet!



Please sign your name and the date you finished below. Parent signature is requested as well. Please bring the completed booklet back to school when you return in August for “Meet the Teacher” or on the first day of school. Thank you for practicing math over the summer. This will help us get the year off to a GREAT START!

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(Student Signature)

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Date

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(Parent/Guardian Signature)

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Date