

5th to 6th Grade Summer Practice

1. Multiply.

30 [10s] = _____

300 [10s] = _____

300 [100s] = _____

2. Multiply.

60 [10s] = _____

600 [10s] = _____

600 [100s] = _____

3. Tyler got his driver's license in the year 2002 when he was 16 years old. In what year was he born?

Open sentence: _____

Solution: _____

Answer: _____

4. Waneta's grandmother bought her 2 notebooks for \$3.95 each, and a pair of shoes for \$22.25. She now has \$20.00. How much money did she have before shopping?

Open sentence: _____

Solution: _____

5. Paco's grandfather bought him 3 packs of batteries for \$4.98 each, and a game for \$29.89. He now has \$11.00. How much money did he have before shopping?

Open sentence: _____

Solution: _____

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6. Lauren has \$5.93. She buys a sandwich for \$3.64. How much does she have left?

\$ _____

Number model: _____

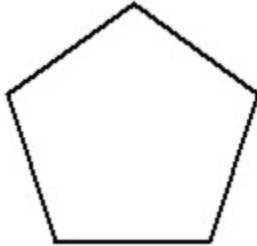
Explain your answer.

7. **a.** List at least one way in which an equilateral triangle and a scalene triangle are the same.

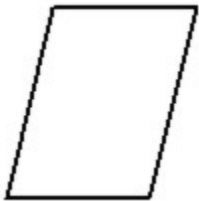
b. List at least one way in which an equilateral triangle and a scalene triangle are different.

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8. Identify all of the true statements about the polygon below.



- a. This polygon is a quadrangle.
 - b. This is a regular polygon.
 - c. At least two angles are congruent.
 - d. At least two sides are parallel.
 - e. At least two sides are the same length.
9. For the shape, fill in the circles that apply.



- polygon
- parallelogram
- quadrangle
- rectangle

10. I am a polygon. I have more sides than a square. Draw me in the space below.

What shape am I? _____.

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11. Draw a quadrangle that has exactly one pair of parallel sides.

What kind of quadrangle is this?

12. Solve. Show your work on the computation grid.

a. $243 \div 9 =$ _____

b. _____ $\times 9 = 234$

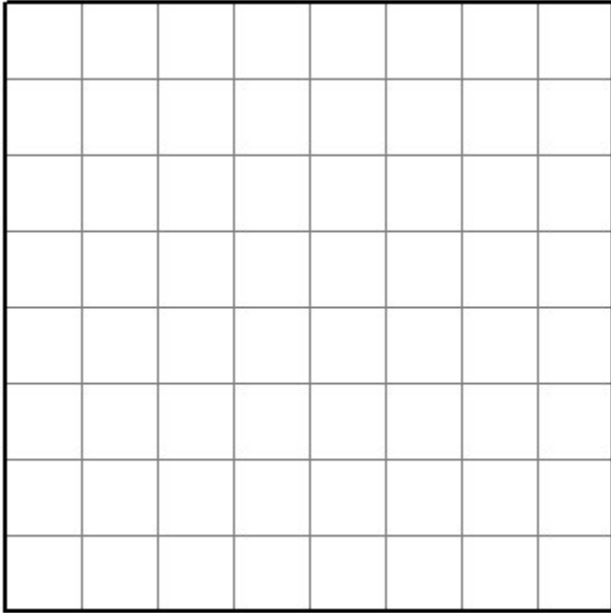
13. Divide.

$1,190 \div 34 =$ _____

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14. Solve the problem. Show your work.

$$154.8 \div 8 = \underline{\hspace{2cm}}$$



15. Solve. Show your work.

$$277.2 \div 5 = \underline{\hspace{2cm}}$$

16. Round 435.15 to the nearest tenth. _____

17. Round 245.657 to the nearest tenth. _____

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18. Jermaine is making a cake.

He needs $\frac{1}{4}$ cup of sugar for the cake, and $\frac{1}{2}$ cups of sugar for the frosting.

How much sugar does he need all together?

Open sentence: _____

Solution: _____

19. Lisa collected $\frac{7}{8}$ of a pound of blueberries. Kyle collected $\frac{1}{2}$ of a pound of blueberries.

How much did they collect together?
Use fraction sticks to add the fractions.



$\frac{7}{8} + \frac{1}{2} =$ _____ pounds of blueberries

20. Select each whole number or mixed number that is equivalent to the fraction below.

$\frac{22}{5}$

- a. $4\frac{3}{10}$ b. $4\frac{2}{5}$ c. 5 d. $3\frac{7}{5}$

e. $4\frac{1}{5}$

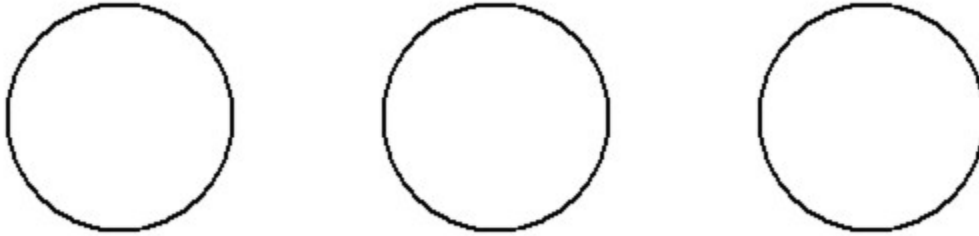
21. Write the mixed number and fraction for the diagram below.
The square is worth 1.



Mixed number: _____ Fraction: _____

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22. 4 friends want to equally share the 3 pizzas shown below. Shade the pizzas to show how the friends can share the pizzas equally.



How much of a pizza does each friend get? _____ of a pizza

Write a number model for this problem. _____

So, $3 \div 4 =$ _____

23. A pet store wants to divide 32 pounds of gravel equally among 7 aquariums. How much gravel should go into each aquarium?

_____ pounds

Between what two whole numbers does your answer lie?

24. Add.

$$\frac{2}{3} + \frac{3}{8} = \underline{\hspace{2cm}}$$

25. Subtract.

$$\begin{array}{r} \frac{7}{8} \\ - \frac{1}{6} \\ \hline \end{array}$$

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26. David bakes a cake. He eats $\frac{1}{4}$ of the cake and his friend eats $\frac{3}{8}$.

What fraction of the cake have they eaten? _____

How much is left? _____

27. Convert.

53 mm = _____ cm.

28. Complete the statement.

1.4 m = _____ mm.

29. Add or subtract.

a. $\frac{6}{7} + \frac{4}{7} =$ _____

b. $1 - \frac{9}{10} =$ _____

c. $\frac{11}{12} - \frac{5}{12} =$ _____

d. $\frac{2}{8} + \frac{10}{16} =$ _____

e.
$$\begin{array}{r} \frac{9}{12} \\ - \frac{1}{3} \\ \hline \end{array}$$

f.
$$\begin{array}{r} \frac{3}{4} \\ + \frac{2}{5} \\ \hline \end{array}$$

g.
$$\begin{array}{r} \frac{5}{8} \\ - \frac{2}{5} \\ \hline \end{array}$$

h.
$$\begin{array}{r} \frac{4}{5} \\ + \frac{7}{8} \\ \hline \end{array}$$

30. Write in standard notation.

$6 * 10^4 =$ _____

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31. Complete the table.

Standard Notation	Scientific Notation
40,000	$4 * 10^4$
700,000	$7 * 10^5$
8,000	
50,000	
	$6 * 10^4$

32. Fill in the circle next to each number sentence that is true.

$13 + (-27) > -5$

$65 < 6^2 - (-20)$

$\frac{4}{5} + \frac{4}{5} > 1$

$3^4 = 9^2$

$10 * 10 * 10 = 10^3$

33. Insert parentheses when necessary to make the number sentence true. (Because of the rules for order of operations, the problem might not need parentheses.)

$$12 + 18 \div 2 = 15$$

34. Insert parentheses when necessary to make the number sentence true. (Because of the rules for order of operations, the problem might not need parentheses.)

$$-2 + 6 * 3 - (-5) = 32$$

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35. Write each number in standard notation and in number-and-word notation.

Number	Standard Notation	Number-and-Word Notation
10^5		
10^8		
$6 * 10^7$		
$5.9 * 10^6$		

36. Draw a line from each story to the number model that matches.

a. Ebony baked 3 trays of cookies with one dozen on each tray. She and her brother ate 4 of the cookies while they were still warm.

$$3 * 12 - 4$$

$$4 * (12 - 3)$$

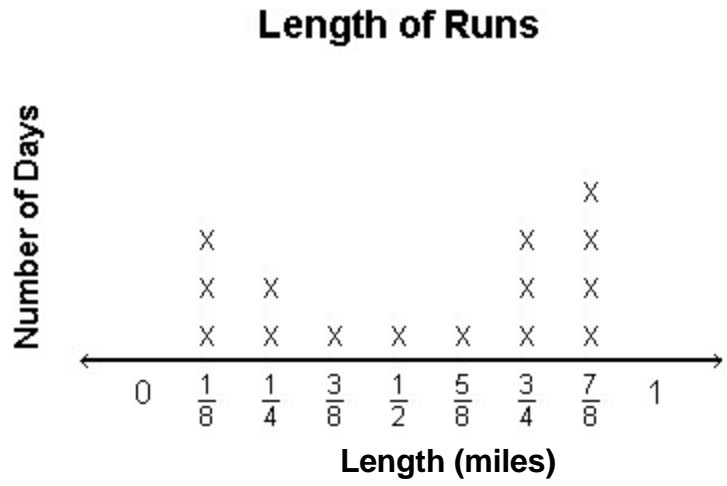
b. Dante baked 3 trays of cookies. He started with one dozen on each tray. Then his mom removed 4 cookies from each tray to send to Dante's grandmother.

$$3 * (12 - 4)$$

$$4 * 12 - 3$$

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37. Jake ran each day for 15 days. He recorded the lengths of his runs in the line plot shown below.



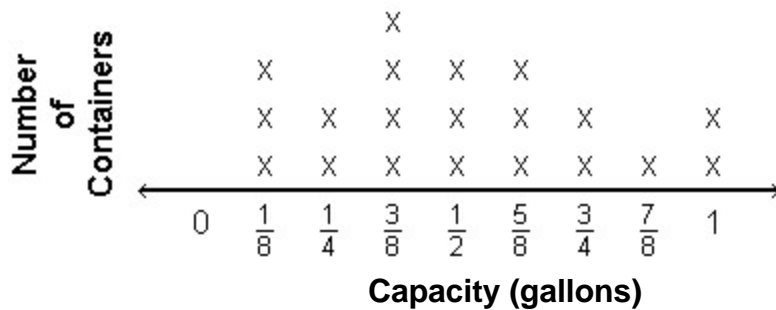
How much longer was his longest run than his shortest run?

_____ miles

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38. Amy sorted the containers she has in her kitchen. She recorded the capacities of the containers in the line plot shown below.

Capacity of Containers



a. Which size container does she have the least of?

_____ gallon

b. One gallon equals 128 ounces.

How many total ounces will all of Amy's $\frac{5}{8}$ -gallon containers hold?

_____ ounces

39. Add or subtract.

a. $5\frac{7}{24} - \frac{5}{6} =$ _____

b. $1\frac{2}{3} + 1\frac{1}{7} =$ _____

40. Community School 5th graders wanted to donate 6 boxes of canned food to their local food bank.

They collected $2\frac{1}{5}$ boxes in 10 days. How many more boxes do they need to collect?

_____ boxes

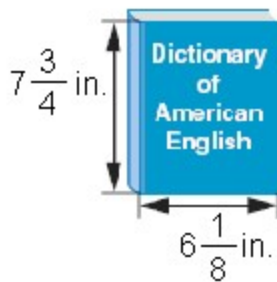
- a. $3\frac{4}{5}$ b. $7\frac{4}{5}$ c. $4\frac{4}{5}$ d. $4\frac{1}{5}$

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41. The school softball team practiced for $3\frac{1}{3}$ hours on Monday and $3\frac{1}{2}$ hours on Tuesday. Was the softball team's total practice time more or less than 7 hours?

Explain.

42. The area of the cover of the dictionary is about _____ (units)



- a. $47\frac{15}{32}$ in.² b. $42\frac{3}{32}$ in. c. $42\frac{3}{32}$ in.² d. $47\frac{15}{32}$ in.

43. Is the product $393 * \frac{5}{4}$ greater than, less than, or equal to 393?

44. Is the product $859 * \frac{3}{4}$ greater than, less than, or equal to 859?

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45. Write <, >, or =.

$$\frac{2}{7} \text{ ————— } \frac{8 * 2}{8 * 7}$$

Explain your answer.

46. Erin is ordering 6 pizzas.

How many people can Erin serve if each person eats $\frac{1}{3}$ of a pizza?

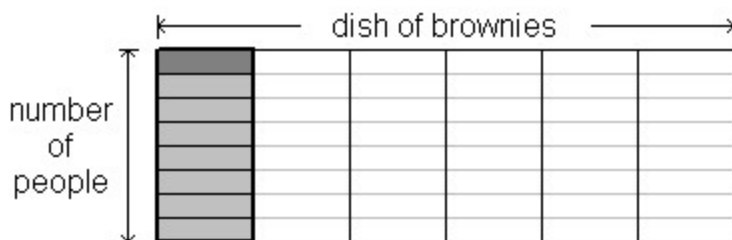
_____ people

47. There are 30 students in Karina’s class. Three-fifths of her class rides to school on the school bus. The other students walk or ride a bike to school. How many students walk or ride a bike to school?

_____ students

48. After a party, $\frac{1}{6}$ of a dish of brownies are left.

8 people want to share the leftovers equally.
How much of the whole dish will each person get? Use the model to help you.



Open sentence: _____

Solution: _____


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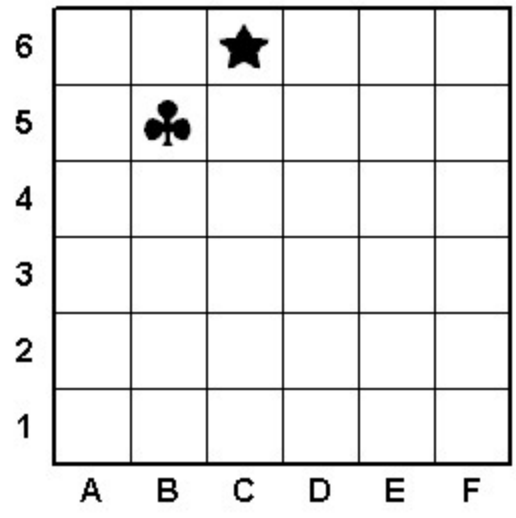
49. How much ice cream will each person get if 5 people share $\frac{1}{2}$ gallon of ice cream equally?

_____ gallon of ice cream

50. Use the grid to locate the following shapes on the map. The first one has been done for you.

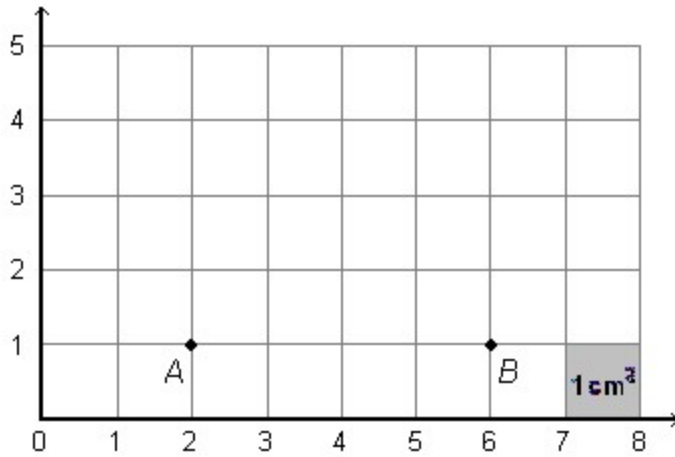
a.  at **B5**.

b.  at _____.



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51. a. What ordered number pair names Point *B* in the coordinate grid? _____



b. Plot and label a Point *C* in the grid so that triangle *ABC* has an area of 8 cm².

What ordered number pair names Point *C*? _____

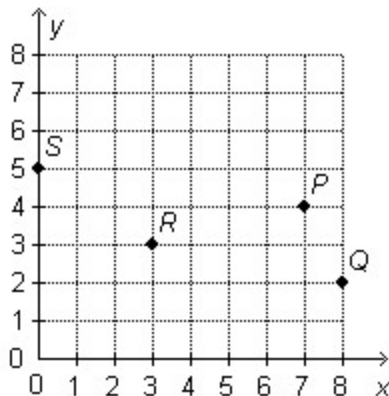
52. Identify the point named by each ordered pair.

a. (0, 5) _____

b. (7, 4) _____

c. (3, 3) _____

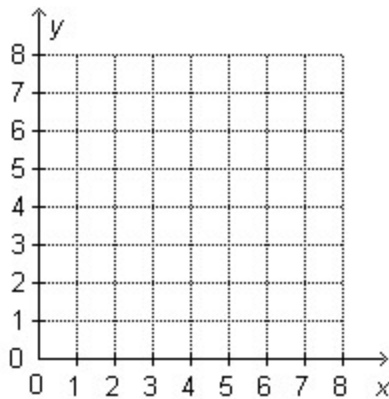
d. (8, 2) _____



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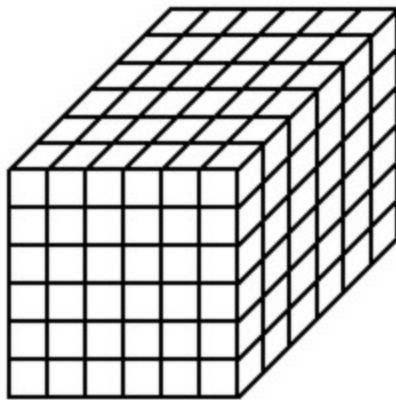
53. **a.** Plot the following points on the grid: (6,4); (4,6); (4,8); (5,8).
b. Connect the points with line segments in the order given above.

Then connect (5,8) and (6,4).



c. What shape have you drawn? _____

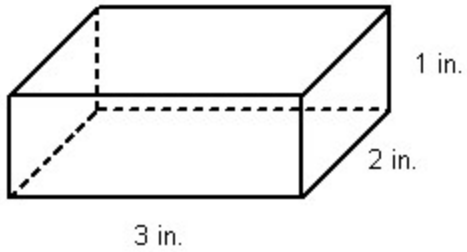
54. The prism below is made of inch cubes.



What is the volume of the prism? _____

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55. Find the volume of the rectangular prism.



Volume = _____
(unit)

Volume of a prism: $V = B * h$

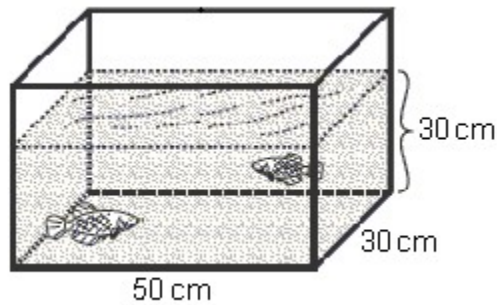
56. Complete the following equivalence.

1 liter = _____ milliliter(s).

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57. Jorge's fish are sick, and he wants to add medicine to the tank. The instructions suggest adding one drop of medicine for every 3 L of water. The base of the fish tank measures 50 cm by 30 cm. The tank is filled with water to a height of about 30 cm.

$1\text{L} = 1,000\text{ cm}^3$



a. How many drops of medicine should Jorge add to his tank?

Round your answer to the nearest whole number. _____

b. Explain what you did to find the answer.

58. Answer the question with an algebraic expression, using the suggested variable.

Preston earns D dollars per hour.

Laura earns one-fourth as much per hour as Preston.

How much does Laura earn per hour? \$_____

- a. $\frac{1}{4} * D$ b. $D + \frac{1}{4}$ c. $4 * D$ d. $D - \frac{1}{4}$

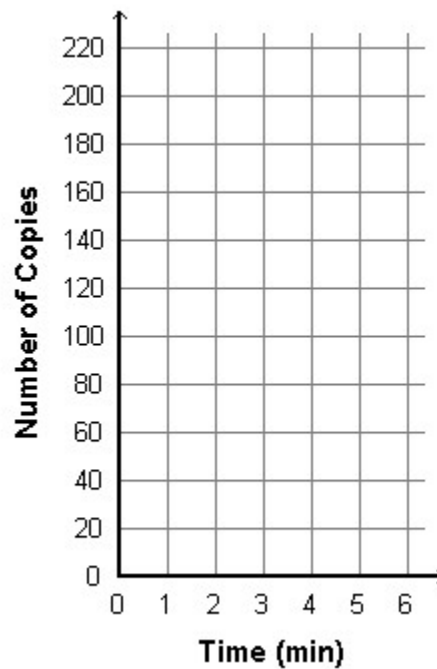
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59. A copy machine in the school office can make 40 copies per minute.
This is given below as a rule.

a. Complete the table. Then graph the data in the table.

Rule: Number of copies = $40 * \text{number of minutes}$

Time (min)	Number of copies
1	
	100
3	
	160
$4\frac{1}{2}$	
	220



b. Ms. Smith needs to make 200 copies.

About how long will this take? _____

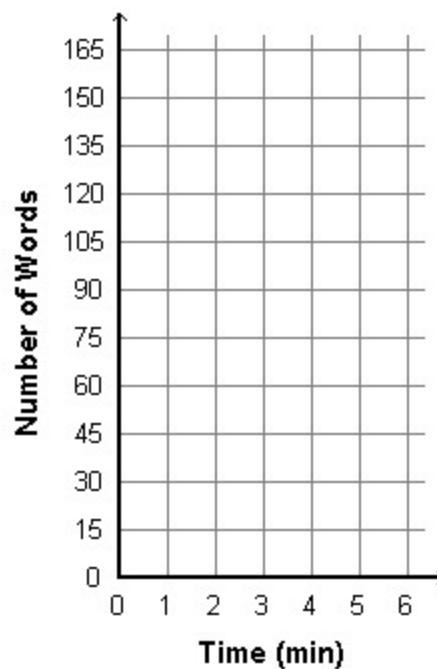
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60. A secretary in the school office can type 30 words per minute.
This is given below as a rule.

a. Complete the table. Then graph the data in the table.

Rule: Number of words = $30 * \text{number of minutes}$

Time (min)	Number of words
1	
	75
3	
	120
$4\frac{1}{2}$	
	165



b. Mr. Edwards needs to type 45 words.

About how long will this take? _____

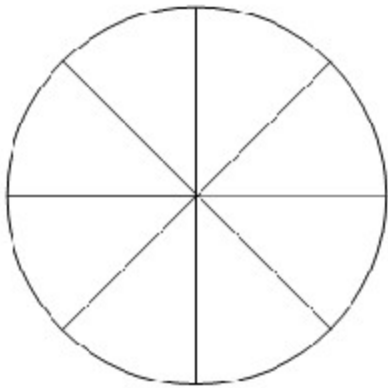
61. Complete the following equivalence.

1 half-gal = _____ fl oz

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62. Color the spinner so it has a 50% chance of landing on black and a $\frac{1}{8}$ chance of landing on gray. Leave the rest of the spinner white.

- a. What is the probability of landing on white? _____
- b. If you spin the spinner 400 times, about how many times would you expect the spinner to land on gray? _____



63. Darrell missed $\frac{1}{10}$ of the 40 shots he took in a basketball game against the Rams.

What fraction of the shots did he make? _____

How many shots did he miss? _____

How many shots did he make? _____

What percent of his shots did he make? _____

64. There are 630 students in the basketball league. Six out of seven students are girls. How many students are girls?

65. If a set has 96 objects, how many objects are there in $\frac{8}{3}$ of the set?

_____ objects

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66. If you drew a line segment twice as long as a $5\frac{1}{4}$ -inch line segment, how long

would the new line segment be? _____

- a. $10\frac{2}{4}$ in. b. $10\frac{6}{8}$ in. c. $10\frac{6}{16}$ in. d. $10\frac{2}{8}$ in.

67. How many minutes are in $\frac{3}{4}$ of an hour? _____ minutes

68. There are 25 students in Michelle's class. Three-fifths of her class rides to school on the school bus. The other students walk or ride a bike to school. How many students walk or ride a bike to school?

_____ students

69. **a.** Two out of 5 cars parked on one street were blue. If there were 25 cars,

how many were blue? _____

b. What is the ratio of cars that were not blue to total cars? _____

Explain how you found your answer. _____

70. **a.** Three out of 7 cars parked at a car lot were silver. If there were 28 cars,

how many were silver? _____

b. What is the ratio of cars that were not silver to total cars? _____

Explain how you found your answer. _____
