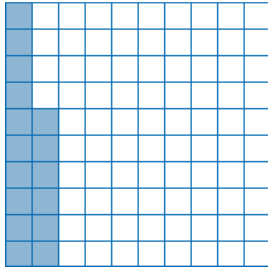


1. What percent of the model is shaded?



2. What is the quotient of  $\frac{3}{4}$  and  $1\frac{1}{2}$ ?
3. What is the difference in temperature between city #1 and city #3?

City	Temperature
City #1	$-8^{\circ}$ F
City #2	$25^{\circ}$ F
City #3	$43^{\circ}$ F
City #4	$-16^{\circ}$ F

4. Mary is making a fruit salad. She has decided that  $\frac{5}{6}$  of the fruit salad will be oranges. What percent of the fruit salad will be oranges?
5. Point  $T$  at  $(7, -2)$  is reflected across the  $y$ -axis. What quadrant would the reflection be in?
6. Name two points that are located in Quadrant III?
7. Matthew used a \$50 gift card to buy digital music online. After paying for 14 songs, his balance on the gift card was \$15. What was the price of each song, assuming all songs cost the same amount?
8. The price at a laser tag arena is based on the number of games played, as shown in the table below. What is the price for 18 games of laser tag at the arena?

Number of Games	Price
2	\$8
3	\$12
5	\$20
7	\$28
10	\$40

9. Gabriel paid \$3.60 for a 30 ounce bottle of soda.

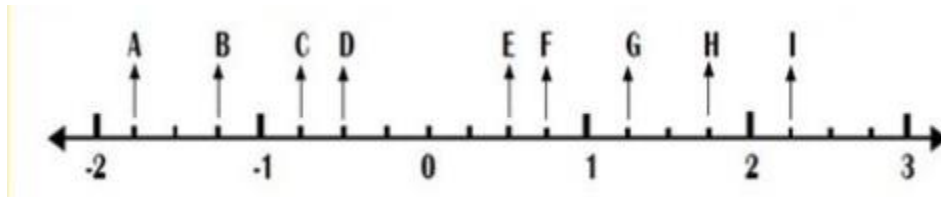
What was the price per ounce?

10. Estefany is working with other students from her class on a project their teacher gave them. The project is to bake a cake that uses a lot of fractions of ingredients. The recipe says "to find the amount of flour to use, divide  $\frac{4}{7}$  cups by  $\frac{1}{7}$ ". How much flour should Estefany's group use?

11. Arturo wants to simplify the fraction  $\frac{20}{32}$ . What is the greatest common factor of 20 and 32 to simplify the fraction?

12. A machine can wrap 700 lollipops in 25 minutes. What is the unit rate of lollipops wrapped every minute?

13. What fraction could point B represent on the number line below?



14. Mrs. Caruso has 24 students in her class: 14 boys and 10 girls. She writes the name of each student on a slip of paper and puts each slip into a bag.

Before Mrs. Caruso draws a name out of the bag, a student in the class makes the following claim: "Mrs. Caruso will probably draw a boy's name from the bag because the ratio of boy names to girl names is 7:12."

Was the student's claim correct or not correct and why?

15. Which sequence shows the correct order of operations for the expression below?

$$50 \div 2 - 3(18 - x) \text{ where } x = 10$$

16. Kona wants to list the following numbers in order from greatest to least.

$$\frac{1}{10}, \frac{1}{2}, 0.0024, 3\%$$

17. Put the cities in order from hottest to coldest.

City Name	Temperature
Elk Grove	-15 degrees
Moosehaven	-8 degrees
Kingston	4 degrees
Reston	-1 degree
National City	2 degrees

18. Mrs. Robillard had the following transactions during the week:

Monday Deposit \$615  
Tuesday Withdrawal \$213  
Wednesday Withdrawal \$167  
Thursday Deposit \$287

What is the sum of all the transactions for the week?

19. Thomas has finished 6 problems of his weekly math homework. If he needs to solve a total of 20 problems, which of the following shows the equivalent of the percentage of his math homework Thomas still needs to complete?

20. There are 25 students in Mr. Isaac's history class. Of these students, 10 have brown hair, 8 have black hair, 5 have blonde hair, and 2 have red hair. What percentage of students in Mr. Isaac's class have black hair?

21. What percentage of 40 is 18?

22. Jackson's dad has just opened a sports store and Jackson is helping him price the tennis balls. Jackson's dad has told him they need to charge no more than \$2.50 per tennis ball. Jackson has thought of five different rates to charge. Which of the following rates will price tennis balls are no more than \$2.50 per ball? Select all that apply.

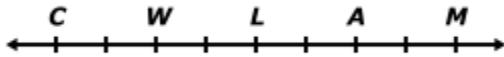
- A \$35 for 12 tennis balls
- B \$49 for 20 tennis balls
- C \$64 for 29 tennis balls
- D \$91 for 36 tennis balls
- E \$105 for 42 tennis balls

23. Put a check mark next to all of the true comparisons below.

- A  $-6 < -7$
- B  $9 < -12$
- C  $7 > -5$
- D  $3 > -8$

24. Lilly is traveling to the coast. The trip takes her 5 hours including a half hour stop for lunch. If she is traveling at 60mph, how many miles did she drive?

25. Write at least two different comparisons from the number line below using an inequality and the words left or right in the comparison.



For example:

The letter "M" is greater than the letter "A" because the letter "M" is to the right of letter "A".

26. Out of the 32 students in Mr. Karian's class, 18 are boys. If this ratio is proportional to the ratio of students in the school and the number of boys in the school, write the following proportions would *best* be used to find the number of students in the school? It is given that there are 504 boys in the school. Solve the proportion.
27. Sara bought a pair of pants that were on sale for 40 percent off of the original price. If the original price of the pants was \$28, what was the sales price of the pants?
28. The table below shows the percentage of automobile sales for various makes of cars. If a total of 3200 cars were sold, how many cars of Brand C were sold?

Brand	Amount
A	25%
B	28%
C	12%
D	15%
Other	20%

29. What percent of 32 is 48?
30. Find the value of the expression.

$$143.13 - 76.87$$