What property supports each statement?

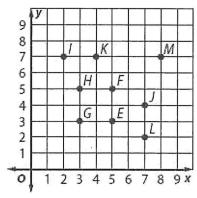
1.
$$(5+3)+7=5+(3+7)$$

Associative Property of Addition

 $2.4 \cdot 1 = 4$

Multiplicative Identity

Refer to the coordinate plane.



3. Choose the point for the ordered pair (5, 3).



4. Which ordered pair names point *K*?

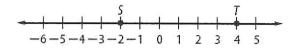
Refer to the table.

x	12	16	20	24
y	0	4	8	12

5. Which ordered pair would appear in a graph of the data?

6. Which rule represents the data in the table?

7. Which integer represents point S on the number line?



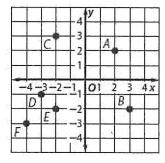


8. A whale dives towards deeper water at a rate of 6 feet per second. It continues for a total of 20 seconds. Which expression represents this situation?

9. Lupe is 49 feet underground touring a cavern. She climbs 18 feet up a ladder. What is her new location?

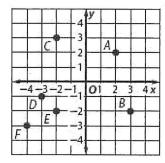


10. Which point is located at (-4, -3)?





11. Which point(s) in the coordinate plane are located in Quadrant II?





12. What is the value of $\frac{-12}{a}$ if a = -4?



13. Which decimal is equivalent to $-\frac{2}{9}$?



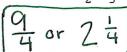
14. Which fraction is equivalent to $2\frac{3}{4}$?



15. How many minutes are equal to $\frac{1}{3}$ hour?



16. What is the quotient of $\frac{3}{2} \div \frac{2}{3}$?



17. How many $\frac{3}{4}$ -cup of juice can be poured from 6 cups of juice?



18. What is the difference $\frac{5}{6} - \frac{1}{3}$?



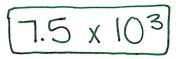
19. What is the value of w^3 if w = 5?



- 20. Find $\sqrt{196}$.
- 21. What is 6.13×10^{-3} in standard form?

Name:	Class:	Date:

22. The population of Ida county is 7,500 people. Express this number in scientific notation.



23. Which expression uses a negative exponent to represent $\frac{1}{3^4}$?



24. Which expression is equivalent to b^{-4} ?



25. Which fraction represents the ratio 3 roosters out of 10 chickens in simplest form?



26. Which rate has the same unit rate as 300 words in 4 minutes?



27. Find $m \cdot m^4$.



28. Alana buys 3 pounds of potatoes for \$2.82. What is the unit price of the potatoes?

29. Which set of numbers is proportional?

30. At the same time a 6-foot person casts a 2-foot shadow, a nearby flagpole casts a 10-foot shadow. How tall is the flagpole?

30 feet

31. Chad jogs $4\frac{2}{5}$ miles in $\frac{1}{2}$ hour. What is his average speed in miles per hour?

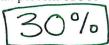


32. Which proportion can be used to find what number is 15% of 280?

$$\left[\frac{X}{280} = \frac{15}{100}\right]$$

¥ 4			
Name:	3	Class:	Date:

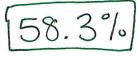
33. Nine is what percent of 30?



34. If Karen scores 6 goals out of 15 attempts, what percent of her attempts result in a score?



35. What percent 210 is of 360?



36. What is 20% of 95?



37. If 30% of a number is 15, what is 25% of the number?



- 38. Which situation represents a percent of decrease?
- 39. Mei buys a suit marked \$60. She receives a 25% discount. Which equation can be used to find the sale price of the suit?
- 40. A runner ran 25 miles last week and 15 miles this week. What is the percent of change? Identify the percent of change as an increase or decrease.



- 41. Fiona deposited \$900 in the bank over 2 years. She earned \$60 in simple interest at the end of the 2 years. What was the annual interest rate?
- 3.3%
- 42. Katarina plans to borrow \$600 at 3% over 5 years. What amount of simple interest should she expect to pay?



43. An investment of \$1000 is compounded annually at 8%. What is the total amount of money after 2 years?



44. What is the percent of change from 14 inches of snowfall to 35 inches of snowfall? Then tell whether it is an increase or decrease.

150% Increase

45. A store makes a profit of \$8 on a sweater after a markup of 40%. What is the selling price of the sweater?



Identify all sets to which each number belongs.

N.W.Z.Q

 \mathbb{Z} , \mathbb{Q} 48. π Irrational

49. -5.075

50. -3. 8