

Math 6 – Unit 2: Rates, Ratios & Proportional Reasoning Review

Knowledge and Understanding

1. What is a ratio? _____
2. What is a rate? _____
3. What is a unit rate? _____
4. What is a percent? _____

Proficiency of Skills

5. Fill in the ratio table:

9	18			45
12		36	48	

6. 80 is 25% of what number? _____
7. Find 30% of 70. _____
8. Find the value of x . $\frac{15}{25} = \frac{x}{30}$ _____
9. Write the ratio as a unit rate: \$27 for 9 tickets. _____

Application

10. Jaden drove 260 miles in 4 hours. Jada drove 210 miles in 3 hours. Who drove at the fastest rate of speed? How do you know?
 - a. Who drove the fastest? _____
 - b. How do you know? _____

11. A circus elephant is going to stand on a ball. Lulu the Elephant weighs 2 Tons. If the ball can hold up to 3,000 pounds, will Lulu make it? Explain your answer.

12. The table below shows the number of each item sold at the concession stand. What might the ratio 3:4 represent?

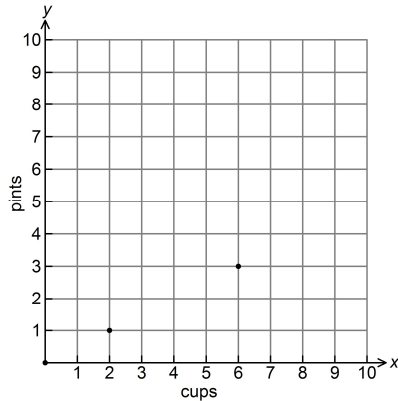
Item	Quantity Sold
Popcorn	20
Nachos	15
Hot Dog	25
Candy Bar	30

11. The ratio of boys to girls in a class is 4:8. If there are 24 students in the class, how many are boys?
12. In a class of 40 students, 30% DID return their permission slips for the school field trip. How many students did NOT return their permission slips?
13. The table below shows the cost for varying number of books. If the rate stays the same, determine the value of n .

Number of Books	Cost
6	\$24
10	\$40
12	\$48
20	N

14. PBIS Middle School held a car wash as a fundraiser. Out of the 50 vehicles that were washed, 15 were trucks. What percent were trucks?

15. The graph below compares cups to pints. Which of the following ordered pairs would also satisfy this relationship?



- A. (1, 2) B. (2, 4) C. (2, 0) D. (4, 2)

16. Michael's paycheck last week was \$146.50. He would like to put 20% of his earnings in his savings account. How much money should he put in his savings account?

- a. \$5.02 b. \$15.22 c. \$29.30 d. \$88.27

17. The prices of 4 different bottles of lotion are given in the table. Which size bottle is the BEST value?

Size	Price
25 ounces	\$4.50
15 ounces	\$1.80

- A. The 25-oz bottle
 B. The 15-oz bottle
 C. They both have the same unit price
 D. Neither

18. Driving at a constant speed, Daisy drove 240 miles in 6 hours. How far would she drive in 1 hour? 15 hours?

19. Chompers is 76 cm long. How many mm is this?

- a. .76 mm b. 7.6 mm c. 760 mm
 7,600 mm