

Math 6 - Unit 2: Ratios, Rates, Proportions

End of Unit Study Guide

Name: _____

Class Period: 1 2 3 4 Date: _____

1) 18 is 25% of what number? 1) _____

2) Write the letter of the pair that do **NOT** form a proportion. 2) _____

a) $\frac{2}{3} = \frac{4}{9}$

b) $\frac{14}{100} = \frac{7}{50}$

c) $\frac{13}{26} = \frac{4}{8}$

d) $\frac{3}{4} = \frac{36}{48}$

3) What is 60% of 300? 3) _____

4) Skylar sent 72 texts in 6 days. At this rate, how many texts will she sent in 14 days? 4) _____

5) Which value of x will make these ratios equivalent? $\frac{12}{6} = \frac{x}{8}$ 5) _____

6) Pascal the Lizard is 4 feet long. Louie the Lizard is 60 inches long.
How much longer is Louie than Pascal? (1 foot = 12 inches) 6) _____

7) The ratio of cats to dogs at the pound is 3 to 11.
If there are 42 cats at the pound, how many dogs are there? 7) _____

8) In a Chinese restaurant, 80% of the guests are eating an eggroll.
If 40 people are eating an eggroll, how many total people are at the restaurant? 8) _____

9) Donovan went out to dinner with his friends and had great service.
He wanted to leave a 20% tip on his \$65 bill. How much money will he leave as a tip? 9) _____

- 10) 40 kiloliters of fruit punch were served at a party.
How many liters were served? (1000 L = 1 kL) 10) _____
- 11) If 1 Ton is equal to 2,000 pounds, how many Pounds are equal to 7 Tons? 11) _____
- 12) A school bus used 30 gallons of gas to drive 450 miles. At this rate, how many gallons are needed to drive 1,500 miles? 12) _____
- 13) Mrs. Katz can type 240 words in 3 minutes. Which proportion could be used to find the number of words she can type in 10 minutes? 13) _____
- 14) Kayo spent \$32.50 on 13 gallons of gas. At this rate, how much would 15 gallons cost? 14) _____
- 15) Victor drove 520 miles in 8 hours. At this rate, how long will it take him to travel 1105 miles? 15) _____
- 16) Chris won a pie-eating contest, eating 9 pies in 15 minutes. At this rate, how long will it take him to eat 54 pies? 16) _____
- 17) If Abdul went to a restaurant and had a total bill of \$45. If he left a 25% tip. How much tip did he leave? 17) _____
- 18) Lorenzo is a server and he received a 15% tip on a \$50 bill. How much tip did he receive? 18) _____