6.RP.3 — Ratios & Rates in the Real World

Ratios & Proportions • Grade 6 • Word Problems • Set C • CCSS 6.RP.3

Name: _____ Date: _____

Read each problem carefully, then use ratio and rate reasoning to find the answer.

1. A recipe calls for 5 cups of flour for every 1 cup of sugar. If a baker uses 15 cups of flour, how many cups of sugar are needed?

_____

2. A factory produces 420 toy cars in 6 hours. How many toy cars does it produce per hour?

_____

3. A cyclist rides 24 miles in 2 hours. At this same unit rate, how long will it take the cyclist to ride 96 miles?

_____

4. A grocery store sells 3 peaches for $3.60. At this rate, how much would 14 peaches cost?

_____

5. A faucet leaks at a rate of 4 gallons every 3 hours. How many gallons will leak in 12 hours?

_____

6. A class has 10 girls and 25 boys. Write the ratio of girls to boys in simplest form.

_____

7. A map has a scale of 1 inch = 50 miles. Two cities are 5 inches apart on the map. What is the actual distance between the two cities?

_____

8. A store is offering a 25% discount on a backpack that originally costs $40. How much money will a customer save?

_____

9. A store sells trail mix for $3.20 per pound. How much would 2 pounds of trail mix cost?

_____

10. A runner completes 4 laps in 20 minutes. At this rate, how many laps will the runner complete in 80 minutes?

_____

11. A student answered 74 out of 80 questions correctly on a test. What percent of the questions did the student answer correctly?

_____

12. There are 320 students in 6th grade. If 35% of them participate in the school band, how many students participate in the school band?

_____

13. A car travels 120 miles in 3 hours at a constant speed. How many miles does the car travel per hour?

_____

14. A swimming pool is being filled at a rate of 100 gallons per hour. How many gallons will be in the pool after 7 hours?

_____

15. A recipe that serves 4 people uses 3 pounds of pasta. How many pounds of pasta are needed to serve 20 people?

_____

16. A recipe calls for 4 cups of flour for every 3 cups of sugar. If a baker uses 16 cups of flour, how many cups of sugar are needed?

_____

17. A factory produces 600 toy cars in 10 hours. How many toy cars does it produce per hour?

_____

18. A cyclist rides 144 miles in 4 hours. At this same unit rate, how long will it take the cyclist to ride 252 miles?

_____

19. A grocery store sells 4 apples for $3.20. At this rate, how much would 14 apples cost?

_____

20. A faucet leaks at a rate of 2 gallons every 4 hours. How many gallons will leak in 12 hours?

_____

21. A class has 30 girls and 10 boys. Write the ratio of girls to boys in simplest form.

_____

22. A map has a scale of 1 inch = 100 miles. Two cities are 9 inches apart on the map. What is the actual distance between the two cities?

_____

Answer Key

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1. 3 cups of sugar
2. 70 toy cars per hour
3. 8 hours
4. $16.80
5. 16 gallons
6. 2:5
7. 250 miles
8. $10.00
9. $6.40
10. 16 laps
11. 92.5%
12. 112 students
13. 40 miles per hour
14. 700 gallons
15. 15 pounds of pasta
16. 12 cups of sugar
17. 60 toy cars per hour
18. 7 hours
19. $11.20
20. 6 gallons
21. 3:1
22. 900 miles