

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

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

Name: _____

Date: _____

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

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

2. A runner completes 4 laps in 30 minutes. At this rate, how many laps will the runner complete in 120 minutes?

3. A store is offering a 10% discount on a skateboard that originally costs \$24. How much money will a customer save?

4. A student answered 19 out of 25 questions correctly on a test. What percent of the questions did the student answer correctly?

5. A recipe calls for 4 cups of flour for every 3 cups of sugar. If a baker uses 20 cups of flour, how many cups of sugar are needed?

6. A faucet leaks at a rate of 5 gallons every 4 hours. How many gallons will leak in 16 hours?

7. A map has a scale of 1 inch = 25 miles. Two cities are 9 inches apart on the map. What is the actual distance between the two cities?

8. A recipe that serves 8 people uses 2 pounds of pasta. How many pounds of pasta are needed to serve 24 people?

9. A store sells trail mix for \$1.80 per pound. How much would 3 pounds of trail mix cost?

10. There are 240 students in 6th grade. If 75% of them participate in the chess club, how many students participate in the chess club?

11. A grocery store sells 4 pears for \$4.40. At this rate, how much would 13 pears cost?

12. A cyclist rides 108 miles in 3 hours. At this same unit rate, how long will it take the cyclist to ride 144 miles?

13. A swimming pool is being filled at a rate of 350 gallons per hour. How many gallons will be in the pool after 4 hours?

14. A class has 18 girls and 12 boys. Write the ratio of girls to boys in simplest form.

15. A car travels 250 miles in 5 hours at a constant speed. How many miles does the car travel per hour?

16. A factory produces 400 toy cars in 5 hours. How many toy cars does it produce per hour?

17. A runner completes 2 laps in 25 minutes. At this rate, how many laps will the runner complete in 75 minutes?

18. A store is offering a 10% discount on a backpack that originally costs \$56. How much money will a customer save?

19. A student answered 18 out of 20 questions correctly on a test. What percent of the questions did the student answer correctly?

20. A recipe calls for 5 cups of flour for every 2 cups of sugar. If a baker uses 15 cups of flour, how many cups of sugar are needed?

21. A faucet leaks at a rate of 2 gallons every 6 hours. How many gallons will leak in 30 hours?

22. A map has a scale of 1 inch = 50 miles. Two cities are 9 inches apart on the map. What is the actual distance between the two cities?

Answer Key

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

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|-------------------------|--------------------------|---------------------|
| 1. 60 toy cars per hour | 9. \$5.40 | 17. 6 laps |
| 2. 16 laps | 10. 180 students | 18. \$5.60 |
| 3. \$2.40 | 11. \$14.30 | 19. 90% |
| 4. 76% | 12. 4 hours | 20. 6 cups of sugar |
| 5. 15 cups of sugar | 13. 1,400 gallons | 21. 10 gallons |
| 6. 20 gallons | 14. 3:2 | 22. 450 miles |
| 7. 225 miles | 15. 50 miles per hour | |
| 8. 6 pounds of pasta | 16. 80 toy cars per hour | |