

Grade 7 Ratios & Proportions Mixed Review

Ratios & Proportions • Grade 7 • Mixed Review • Set C • CCSS 7.RP.2

Name: _____

Date: _____

Solve each problem. Read carefully — the problems change shape as you go.

1. \$420.00 for 7 items = \$___ per item

2. On a map, 3 cm represents 12 km. What distance does 9 cm represent?

3. Solve: $\frac{11}{11} = \frac{x}{44}$

4. If y is proportional to x and $y = 21$ when $x = 3$, what is y when $x = 6$?

5. \$80.00 for 4 items = \$___ per item

6. A rectangle 4 cm by 8 cm is enlarged by a scale factor of 7. What are the new dimensions?

7. Solve: $\frac{x}{2} = \frac{24}{12}$

8. If y is proportional to x and $y = 30$ when $x = 5$, what is y when $x = 8$?

9. 243 miles in 9 hours = ____ miles per hour

10. On a map, 5 cm represents 30 km. What distance does 9 cm represent?

11. Solve: $x/2 = 24/16$

12. $y = kx$ and $y = 50$ when $x = 5$. Find k .

13. 288 miles in 9 hours = ____ miles per hour

14. A rectangle 3 cm by 4 cm is enlarged by a scale factor of 6. What are the new dimensions?

15. Solve: $2/x = 12/6$

16. $y = kx$ and $y = 14$ when $x = 2$. Find k .

17. \$184.00 for 4 items = \$____ per item

18. On a map, 11 cm represents 44 km. What distance does 12 cm represent?

19. Solve: $\frac{6}{4} = \frac{18}{x}$

20. $y = kx$ and $y = 42$ when $x = 7$. Find k .

21. 30 pages in 5 days = ____ pages per day

22. A rectangle 12 cm by 4 cm is enlarged by a scale factor of 6. What are the new dimensions?

23. Solve: $\frac{x}{7} = \frac{20}{14}$

24. $y = kx$ and $y = 16$ when $x = 4$. Find k .

25. \$60.00 for 6 items = \$____ per item

26. A rectangle 7 cm by 11 cm is enlarged by a scale factor of 6. What are the new dimensions?

27. Solve: $7/x = 28/48$

28. $y = kx$ and $y = 77$ when $x = 7$. Find k .

29. 407 pages in 11 days = ____ pages per day

30. A rectangle 11 cm by 2 cm is enlarged by a scale factor of 2. What are the new dimensions?

Answer Key

Grade 7 Ratios & Proportions Mixed Review — Set C

- | | | |
|-------------------|--------------------|--------------------|
| 1. 60.00 | 11. $x = 3$ | 21. 6 |
| 2. 36 km | 12. $k = 10$ | 22. 72 cm by 24 cm |
| 3. $x = 44$ | 13. 32 | 23. $x = 10$ |
| 4. $y = 42$ | 14. 18 cm by 24 cm | 24. $k = 4$ |
| 5. 20.00 | 15. $x = 1$ | 25. 10.00 |
| 6. 28 cm by 56 cm | 16. $k = 7$ | 26. 42 cm by 66 cm |
| 7. $x = 4$ | 17. 46.00 | 27. $x = 12$ |
| 8. $y = 48$ | 18. 48 km | 28. $k = 11$ |
| 9. 27 | 19. $x = 12$ | 29. 37 |
| 10. 54 km | 20. $k = 6$ | 30. 22 cm by 4 cm |