

Grade 7 Ratios & Proportions Mixed Review

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

Name: _____

Date: _____

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

1. Solve: $x/8 = 48/48$

2. If y is proportional to x and $y = 12$ when $x = 4$, what is y when $x = 7$?

3. On a map, 10 cm represents 70 km. What distance does 8 cm represent?

4. \$576.00 for 12 items = \$____ per item

5. Solve: $x/11 = 84/77$

6. $y = kx$ and $y = 36$ when $x = 6$. Find k .

7. On a map, 12 cm represents 84 km. What distance does 8 cm represent?

8. 82 miles in 2 hours = ____ miles per hour

9. Solve: $7/x = 42/24$

10. If y is proportional to x and $y = 48$ when $x = 4$, what is y when $x = 7$?

11. On a map, 8 cm represents 40 km. What distance does 3 cm represent?

12. \$32.00 for 8 items = \$____ per item

13. Solve: $3/9 = 12/x$

14. If y is proportional to x and $y = 16$ when $x = 4$, what is y when $x = 7$?

15. On a map, 10 cm represents 60 km. What distance does 7 cm represent?

16. 116 miles in 2 hours = ____ miles per hour

17. Solve: $\frac{3}{2} = \frac{x}{12}$

18. $y = kx$ and $y = 20$ when $x = 2$. Find k .

19. A rectangle 12 cm by 9 cm is enlarged by a scale factor of 3. What are the new dimensions?

20. \$287.00 for 7 items = \$____ per item

21. Solve: $\frac{x}{1} = \frac{66}{6}$

22. $y = kx$ and $y = 32$ when $x = 4$. Find k .

23. On a map, 10 cm represents 30 km. What distance does 3 cm represent?

24. 180 miles in 12 hours = ____ miles per hour

25. Solve: $\frac{9}{12} = \frac{63}{x}$

26. If y is proportional to x and $y = 33$ when $x = 3$, what is y when $x = 6$?

27. A rectangle 9 cm by 7 cm is enlarged by a scale factor of 2. What are the new dimensions?

28. 340 miles in 10 hours = ____ miles per hour

29. Solve: $\frac{9}{7} = \frac{x}{49}$

30. If y is proportional to x and $y = 70$ when $x = 7$, what is y when $x = 10$?

Answer Key

Grade 7 Ratios & Proportions Mixed Review — Set B

-
- | | | |
|--------------|--------------------|--------------------|
| 1. $x = 8$ | 11. 15 km | 21. $x = 11$ |
| 2. $y = 21$ | 12. 4.00 | 22. $k = 8$ |
| 3. 56 km | 13. $x = 36$ | 23. 9 km |
| 4. 48.00 | 14. $y = 28$ | 24. 15 |
| 5. $x = 12$ | 15. 42 km | 25. $x = 84$ |
| 6. $k = 6$ | 16. 58 | 26. $y = 66$ |
| 7. 56 km | 17. $x = 18$ | 27. 18 cm by 14 cm |
| 8. 41 | 18. $k = 10$ | 28. 34 |
| 9. $x = 4$ | 19. 36 cm by 27 cm | 29. $x = 63$ |
| 10. $y = 84$ | 20. 41.00 | 30. $y = 100$ |