

Grade 8 Ratios & Proportions Mixed Review

Ratios & Proportions • Grade 8 • Mixed Review • Set B • CCSS 8.EE.5

Name: _____

Date: _____

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

1. On a map, 8 cm represents 32 km. What distance does 6 cm represent?

2. If y is proportional to x and $y = 10$ when $x = 2$, what is y when $x = 5$?

3. Solve: $10/x = 70/21$

4. 340 miles in 10 hours = ____ miles per hour

5. Two similar triangles have corresponding sides 11 and 55. If another side of the small triangle is 6, what is the matching side of the large triangle?

6. A rectangle 2 cm by 2 cm is enlarged by a scale factor of 3. What are the new dimensions?

7. If y is proportional to x and $y = 32$ when $x = 8$, what is y when $x = 11$?

8. Solve: $x/6 = 20/30$

9. 192 pages in 4 days = ____ pages per day

10. Two similar triangles have corresponding sides 11 and 55. If another side of the small triangle is 11, what is the matching side of the large triangle?

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

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

13. Solve: $7/x = 28/24$

14. 93 miles in 3 hours = ____ miles per hour

15. Two similar triangles have corresponding sides 4 and 8. If another side of the small triangle is 10, what is the matching side of the large triangle?

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

17. If y is proportional to x and $y = 48$ when $x = 6$, what is y when $x = 9$?

18. Solve: $4/x = 16/24$

19. 22 miles in 2 hours = ____ miles per hour

20. Two similar triangles have corresponding sides 6 and 12. If another side of the small triangle is 11, what is the matching side of the large triangle?

21. A rectangle 5 cm by 8 cm is enlarged by a scale factor of 2. What are the new dimensions?

22. If y is proportional to x and $y = 40$ when $x = 5$, what is y when $x = 8$?

23. Solve: $5/x = 10/18$

24. 84 pages in 4 days = ____ pages per day

25. Two similar triangles have corresponding sides 6 and 18. If another side of the small triangle is 5, what is the matching side of the large triangle?

26. A rectangle 9 cm by 7 cm is enlarged by a scale factor of 8. What are the new dimensions?

27. If y is proportional to x and $y = 96$ when $x = 8$, what is y when $x = 11$?

28. Solve: $x/5 = 3/15$

29. 360 miles in 8 hours = ____ miles per hour

30. Two similar triangles have corresponding sides 6 and 12. If another side of the small triangle is 5, what is the matching side of the large triangle?

Answer Key

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|-----------------|--------------------|--------------------|
| 1. 24 km | 11. 24 cm by 32 cm | 21. 10 cm by 16 cm |
| 2. $y = 25$ | 12. $y = 28$ | 22. $y = 64$ |
| 3. $x = 3$ | 13. $x = 6$ | 23. $x = 9$ |
| 4. 34 | 14. 31 | 24. 21 |
| 5. 30 | 15. 20 | 25. 15 |
| 6. 6 cm by 6 cm | 16. 48 cm by 36 cm | 26. 72 cm by 56 cm |
| 7. $y = 44$ | 17. $y = 72$ | 27. $y = 132$ |
| 8. $x = 4$ | 18. $x = 6$ | 28. $x = 1$ |
| 9. 48 | 19. 11 | 29. 45 |
| 10. 55 | 20. 22 | 30. 10 |