

Grade 8 Ratios & Proportions Drill

Ratios & Proportions • Grade 8 • Drill • Set A • CCSS 8.EE.5

Name: _____

Date: _____

Solve each problem. Show your work in the space provided.

1. $y = kx$ and $y = 80$ when $x = 8$. Find k .

2. Solve: $12/2 = 24/x$

3. $y = kx$ and $y = 21$ when $x = 7$. Find k .

4. Solve: $11/x = 55/10$

5. $y = kx$ and $y = 20$ when $x = 5$. Find k .

6. Solve: $x/7 = 32/28$

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

8. Solve: $x/8 = 2/16$

9. $y = kx$ and $y = 30$ when $x = 3$. Find k .

10. Solve: $x/3 = 8/6$

11. If y is proportional to x and $y = 12$ when $x = 6$, what is y when $x = 9$?

12. Solve: $x/5 = 54/45$

13. If y is proportional to x and $y = 36$ when $x = 4$, what is y when $x = 7$?

14. Solve: $7/7 = x/35$

15. $y = kx$ and $y = 64$ when $x = 8$. Find k .

16. Solve: $7/5 = x/35$

17. If y is proportional to x and $y = 8$ when $x = 4$, what is y when $x = 7$?

18. Solve: $\frac{1}{5} = \frac{8}{x}$

19. $y = kx$ and $y = 72$ when $x = 6$. Find k .

20. Solve: $\frac{7}{12} = \frac{x}{60}$

21. If y is proportional to x and $y = 99$ when $x = 9$, what is y when $x = 12$?

22. Solve: $\frac{6}{7} = \frac{x}{42}$

23. $y = kx$ and $y = 20$ when $x = 4$. Find k .

24. Solve: $\frac{2}{x} = \frac{10}{50}$

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

26. Solve: $x/2 = 72/18$

27. If y is proportional to x and $y = 6$ when $x = 2$, what is y when $x = 5$?

28. Solve: $10/x = 60/12$

29. $y = kx$ and $y = 27$ when $x = 3$. Find k .

30. Solve: $4/x = 28/63$

Answer Key

Grade 8 Ratios & Proportions Drill — Set A

1. $k = 10$

2. $x = 4$

3. $k = 3$

4. $x = 2$

5. $k = 4$

6. $x = 8$

7. $k = 8$

8. $x = 1$

9. $k = 10$

10. $x = 4$

11. $y = 18$

12. $x = 6$

13. $y = 63$

14. $x = 35$

15. $k = 8$

16. $x = 49$

17. $y = 14$

18. $x = 40$

19. $k = 12$

20. $x = 35$

21. $y = 132$

22. $x = 36$

23. $k = 5$

24. $x = 10$

25. $k = 10$

26. $x = 8$

27. $y = 15$

28. $x = 2$

29. $k = 9$

30. $x = 9$