

Grade 8 Ratios & Proportions Drill

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

Name: _____

Date: _____

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

1. $y = kx$ and $y = 28$ when $x = 4$. Find k .

2. Solve: $\frac{6}{7} = \frac{x}{28}$

3. $y = kx$ and $y = 10$ when $x = 2$. Find k .

4. Solve: $\frac{x}{9} = \frac{9}{81}$

5. $y = kx$ and $y = 56$ when $x = 8$. Find k .

6. Solve: $\frac{11}{5} = \frac{44}{x}$

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

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

9. $y = kx$ and $y = 55$ when $x = 5$. Find k .

10. Solve: $\frac{3}{x} = \frac{18}{54}$

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

12. Solve: $\frac{7}{1} = \frac{x}{2}$

13. $y = kx$ and $y = 48$ when $x = 4$. Find k .

14. Solve: $\frac{1}{x} = \frac{2}{14}$

15. If y is proportional to x and $y = 36$ when $x = 6$, what is y when $x = 9$?

16. Solve: $\frac{11}{10} = \frac{55}{x}$

17. $y = kx$ and $y = 18$ when $x = 3$. Find k .

18. Solve: $9/6 = 18/x$

19. $y = kx$ and $y = 12$ when $x = 3$. Find k .

20. Solve: $11/1 = 66/x$

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

22. Solve: $7/1 = x/5$

23. If y is proportional to x and $y = 15$ when $x = 3$, what is y when $x = 6$?

24. Solve: $x/5 = 30/15$

25. If y is proportional to x and $y = 90$ when $x = 9$, what is y when $x = 12$?

26. Solve: $\frac{9}{5} = \frac{x}{45}$

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

28. Solve: $\frac{10}{x} = \frac{60}{12}$

29. $y = kx$ and $y = 70$ when $x = 7$. Find k .

30. Solve: $\frac{3}{9} = \frac{x}{18}$

Answer Key

Grade 8 Ratios & Proportions Drill — Set B

1. $k = 7$

2. $x = 24$

3. $k = 5$

4. $x = 1$

5. $k = 7$

6. $x = 20$

7. $k = 10$

8. $x = 25$

9. $k = 11$

10. $x = 9$

11. $y = 42$

12. $x = 14$

13. $k = 12$

14. $x = 7$

15. $y = 54$

16. $x = 50$

17. $k = 6$

18. $x = 12$

19. $k = 4$

20. $x = 6$

21. $y = 18$

22. $x = 35$

23. $y = 30$

24. $x = 10$

25. $y = 120$

26. $x = 81$

27. $k = 9$

28. $x = 2$

29. $k = 10$

30. $x = 6$