

# Grade 8 Ratios & Proportions Drill

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

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

1.  $y = kx$  and  $y = 14$  when  $x = 7$ . Find  $k$ .

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2. Solve:  $\frac{5}{9} = \frac{x}{27}$

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3. If  $y$  is proportional to  $x$  and  $y = 49$  when  $x = 7$ , what is  $y$  when  $x = 10$ ?

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4. Solve:  $\frac{1}{12} = \frac{x}{72}$

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5. If  $y$  is proportional to  $x$  and  $y = 84$  when  $x = 7$ , what is  $y$  when  $x = 10$ ?

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6. Solve:  $\frac{11}{x} = \frac{55}{60}$

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

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8. Solve:  $x/7 = 16/14$

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

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10. Solve:  $8/x = 48/30$

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

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

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

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14. Solve:  $x/3 = 72/18$

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15. If  $y$  is proportional to  $x$  and  $y = 30$  when  $x = 6$ , what is  $y$  when  $x = 9$ ?

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16. Solve:  $10/x = 40/40$

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17.  $y = kx$  and  $y = 8$  when  $x = 2$ . Find  $k$ .

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18. Solve:  $x/10 = 22/20$

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

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20. Solve:  $3/4 = x/36$

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

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22. Solve:  $2/1 = 18/x$

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

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24. Solve:  $12/x = 36/3$

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

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26. Solve:  $x/5 = 20/10$

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27.  $y = kx$  and  $y = 8$  when  $x = 4$ . Find  $k$ .

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28. Solve:  $x/10 = 90/90$

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

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30. Solve:  $10/12 = x/84$

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## Answer Key

### Grade 8 Ratios & Proportions Drill — Set C

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1.  $k = 2$

2.  $x = 15$

3.  $y = 70$

4.  $x = 6$

5.  $y = 120$

6.  $x = 12$

7.  $k = 3$

8.  $x = 8$

9.  $y = 72$

10.  $x = 5$

11.  $k = 6$

12.  $x = 12$

13.  $k = 4$

14.  $x = 12$

15.  $y = 45$

16.  $x = 10$

17.  $k = 4$

18.  $x = 11$

19.  $k = 6$

20.  $x = 27$

21.  $y = 100$

22.  $x = 9$

23.  $y = 28$

24.  $x = 1$

25.  $k = 12$

26.  $x = 10$

27.  $k = 2$

28.  $x = 10$

29.  $y = 14$

30.  $x = 70$