Grade 7 Ratios & Proportions Mixed Review

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

Name: _____ Date: _____

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

1. y = kx and y = 18 when x = 2. Find k.

_____

2. Solve: 6/10 = x/50

_____

3. On a map, 12 cm represents 36 km. What distance does 3 cm represent?

_____

4. 440 pages in 8 days = ___ pages per day

_____

5. y = kx and y = 24 when x = 8. Find k.

_____

6. Solve: x/12 = 12/36

_____

7. A rectangle 10 cm by 10 cm is enlarged by a scale factor of 7. What are the new dimensions?

_____

8. 153 miles in 3 hours = ___ miles per hour

_____

9. If y is proportional to x and y = 40 when x = 8, what is y when x = 11?

_____

10. Solve: 3/7 = 12/x

_____

11. On a map, 9 cm represents 63 km. What distance does 7 cm represent?

_____

12. $76.00 for 4 items = $___ per item

_____

13. y = kx and y = 16 when x = 8. Find k.

_____

14. Solve: 1/6 = 3/x

_____

15. A rectangle 6 cm by 8 cm is enlarged by a scale factor of 5. What are the new dimensions?

_____

16. 72 pages in 2 days = ___ pages per day

_____

17. If y is proportional to x and y = 50 when x = 5, what is y when x = 8?

_____

18. Solve: 7/x = 21/24

_____

19. On a map, 5 cm represents 25 km. What distance does 8 cm represent?

_____

20. 470 pages in 10 days = ___ pages per day

_____

21. If y is proportional to x and y = 56 when x = 7, what is y when x = 10?

_____

22. Solve: 6/x = 48/16

_____

23. A rectangle 7 cm by 10 cm is enlarged by a scale factor of 2. What are the new dimensions?

_____

24. 285 miles in 5 hours = ___ miles per hour

_____

25. If y is proportional to x and y = 24 when x = 6, what is y when x = 9?

_____

26. Solve: 2/8 = x/64

_____

27. On a map, 7 cm represents 28 km. What distance does 9 cm represent?

_____

28. 105 miles in 7 hours = ___ miles per hour

_____

29. y = kx and y = 45 when x = 5. Find k.

_____

30. Solve: 2/x = 6/9

_____

Answer Key

Grade 7 Ratios & Proportions Mixed Review — Set A

1. k = 9
2. x = 30
3. 9 km
4. 55
5. k = 3
6. x = 4
7. 70 cm by 70 cm
8. 51
9. y = 55
10. x = 28
11. 49 km
12. 19.00
13. k = 2
14. x = 18
15. 30 cm by 40 cm
16. 36
17. y = 80
18. x = 8
19. 40 km
20. 47
21. y = 80
22. x = 2
23. 14 cm by 20 cm
24. 57
25. y = 36
26. x = 16
27. 36 km
28. 15
29. k = 9
30. x = 3