Grade 8 Proportions Worksheet

Name: _____ Date: _____ Score: _____

Solve each proportion. Write your answer on the line.

1. A map scale is 1 cm = 4 km. If two cities are 5 cm apart on the map, how far apart are they in km?

   _____

2. A 8-ft pole casts a 6-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?

   _____

3. A 10-ft pole casts a 4-ft shadow. A tree casts a 20-ft shadow. How tall is the tree?

   _____

4. A 5-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?

   _____

5. A 10-ft pole casts a 3-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?

   _____

6. A 5-ft pole casts a 7-ft shadow. A tree casts a 7-ft shadow. How tall is the tree?

   _____

7. A map scale is 1 cm = 10 km. If two cities are 3 cm apart on the map, how far apart are they in km?

   _____

8. A 7-ft pole casts a 4-ft shadow. A tree casts a 16-ft shadow. How tall is the tree?

   _____

9. A map scale is 1 cm = 7 km. If two cities are 5 cm apart on the map, how far apart are they in km?

   _____

10. A map scale is 1 cm = 9 km. If two cities are 8 cm apart on the map, how far apart are they in km?

    _____

11. A 9-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?

    _____

12. A map scale is 1 cm = 9 km. If two cities are 5 cm apart on the map, how far apart are they in km?

    _____

13. A 3-ft pole casts a 2-ft shadow. A tree casts a 10-ft shadow. How tall is the tree?

    _____

14. A map scale is 1 cm = 6 km. If two cities are 2 cm apart on the map, how far apart are they in km?

    _____

15. A 4-ft pole casts a 5-ft shadow. A tree casts a 5-ft shadow. How tall is the tree?

    _____

16. A map scale is 1 cm = 3 km. If two cities are 2 cm apart on the map, how far apart are they in km?

    _____

17. A map scale is 1 cm = 10 km. If two cities are

18. A 3-ft pole casts a 2-ft shadow. A tree casts a 4-ft

19. A 10-ft pole casts a 5-ft shadow. A tree

20. A 4-ft pole casts a 2-ft shadow. A tree casts a 6-ft

4 cm apart on the map, how far apart are they in km?

_____

shadow. How tall is the tree?

_____

casts a 14-ft shadow. How tall is the tree?

_____

shadow. How tall is the tree?

_____

21. A map scale is 1 cm = 6 km. If two cities are 6 cm apart on the map, how far apart are they in km?

_____

22. A 6-ft pole casts a 2-ft shadow. A tree casts a 8-ft shadow. How tall is the tree?

_____

23. A 5-ft pole casts a 5-ft shadow. A tree casts a 10-ft shadow. How tall is the tree?

_____

24. A 5-ft pole casts a 2-ft shadow. A tree casts a 4-ft shadow. How tall is the tree?

_____

25. A 8-ft pole casts a 2-ft shadow. A tree casts a 4-ft shadow. How tall is the tree?

_____

26. A 8-ft pole casts a 8-ft shadow. A tree casts a 19-ft shadow. How tall is the tree?

_____

27. A 8-ft pole casts a 8-ft shadow. A tree casts a 9-ft shadow. How tall is the tree?

_____

28. A map scale is 1 cm = 7 km. If two cities are 2 cm apart on the map, how far apart are they in km?

_____

29. A 5-ft pole casts a 2-ft shadow. A tree casts a 6-ft shadow. How tall is the tree?

_____

30. A map scale is 1 cm = 8 km. If two cities are 7 cm apart on the map, how far apart are they in km?

_____

31. A 6-ft pole casts a 3-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?

_____

32. A 10-ft pole casts a 7-ft shadow. A tree casts a 7-ft shadow. How tall is the tree?

_____

33. A 5-ft pole casts a 2-ft shadow. A tree casts a 18-ft shadow. How tall is the tree?

_____

34. A map scale is 1 cm = 7 km. If two cities are 3 cm apart on the map, how far apart are they in km?

_____

35. A 9-ft pole casts a 3-ft shadow. A tree casts a 9-ft shadow. How tall is the tree?

_____

36. A map scale is 1 cm = 5 km. If two cities are 7 cm apart on the map, how far apart are they in km?

_____

37. A 8-ft pole casts a 2-ft shadow. A tree casts a 6-ft

38. A 7-ft pole casts a 2-ft shadow. A tree casts a 6-ft

39. A 6-ft pole casts a 4-ft shadow. A tree casts a 8-ft

40. A map scale is 1 cm = 4 km. If two cities are 8 cm apart on

shadow. How tall is the tree?

_____

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_____

shadow. How tall is the tree?

_____

the map, how far apart are they in km?

_____

ANSWER KEY

Grade 8 Proportions Worksheet

1. A map scale is 1 cm = 4 km. If two cities are 5 cm apart on the map, how far apart are they in km?
   20

2. A 8-ft pole casts a 6-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?
   16

3. A 10-ft pole casts a 4-ft shadow. A tree casts a 20-ft shadow. How tall is the tree?
   50

4. A 5-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?
   15

5. A 10-ft pole casts a 3-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?
   40

6. A 5-ft pole casts a 7-ft shadow. A tree casts a 7-ft shadow. How tall is the tree?
   5

7. A map scale is 1 cm = 10 km. If two cities are 3 cm apart on the map, how far apart are they in km?
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    72

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14. A map scale is 1 cm = 6 km. If two cities are 2 cm apart on the map, how far apart are they in km?
    12

15. A 4-ft pole casts a 5-ft shadow. A tree casts a 5-ft shadow. How tall is the tree?
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16. A map scale is 1 cm = 3 km. If two cities are 2 cm apart on the map, how far apart are they in km?
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17. A map scale is 1 cm = 10 km. If two cities are 4 cm apart on

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shadow. How tall is the tree?

28

shadow. How tall is the tree?

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21. A map scale is 1 cm = 6 km. If two cities are 6 cm apart on the map, how far apart are they in km?

    36

22. A 6-ft pole casts a 2-ft shadow. A tree casts a 8-ft shadow. How tall is the tree?

    24

23. A 5-ft pole casts a 5-ft shadow. A tree casts a 10-ft shadow. How tall is the tree?

    10

24. A 5-ft pole casts a 2-ft shadow. A tree casts a 4-ft shadow. How tall is the tree?

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25. A 8-ft pole casts a 2-ft shadow. A tree casts a 4-ft shadow. How tall is the tree?

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    56

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32. A 10-ft pole casts a 7-ft shadow. A tree casts a 7-ft shadow. How tall is the tree?

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21

12

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