

# Grade 8 Proportions Worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

Solve each proportion. Write your answer on the line.

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|--|---|---|---|
| 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?<br>_____ | 2. A 8-ft pole casts a 6-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?<br>_____                 | 3. A 10-ft pole casts a 4-ft shadow. A tree casts a 20-ft shadow. How tall is the tree?<br>_____                | 4. A 5-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?<br>_____                 |
| 5. A 10-ft pole casts a 3-ft shadow. A tree casts a 12-ft shadow. How tall is the tree?<br>_____               | 6. A 5-ft pole casts a 7-ft shadow. A tree casts a 7-ft shadow. How tall is the tree?<br>_____                  | 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?<br>_____ | 8. A 7-ft pole casts a 4-ft shadow. A tree casts a 16-ft shadow. How tall is the tree?<br>_____                 |
| 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?<br>_____ | 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?<br>_____ | 11. A 9-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?<br>_____                | 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?<br>_____ |
| 13. A 3-ft pole casts a 2-ft shadow. A tree casts a 10-ft shadow. How tall is the tree?<br>_____               | 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?<br>_____ | 15. A 4-ft pole casts a 5-ft shadow. A tree casts a 5-ft shadow. How tall is the tree?<br>_____                 | 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?<br>_____ |
| 17. A map scale is 1 cm = 10 km. If two cities are 4 cm  | 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 casts a 14-ft  | 20. A 4-ft pole casts a 2-ft shadow. A tree casts a 6-ft  |

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

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shadow. How tall is the tree?

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shadow. How tall is the tree?

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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?

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

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

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

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

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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?

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

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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?

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

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

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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?

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

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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?

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

38. A 7-ft pole casts a 2-ft shadow. A tree casts a 6-ft shadow. How tall is the tree?

39. A 6-ft pole casts a 4-ft shadow. A tree casts a 8-ft shadow. How tall is the tree?

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

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\_\_\_\_\_

\_\_\_\_\_

how far apart are  
they in km?

\_\_\_\_\_

ANSWER KEY

# Grade 8 Proportions Worksheet

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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?  
**30**
8. A 7-ft pole casts a 4-ft shadow. A tree casts a 16-ft shadow. How tall is the tree?  
**28**
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?  
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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?  
**72**
11. A 9-ft pole casts a 5-ft shadow. A tree casts a 15-ft shadow. How tall is the tree?  
**27**
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?  
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13. A 3-ft pole casts a 2-ft shadow. A tree casts a 10-ft shadow. How tall is the tree?  
**15**
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?  
**4**
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 the map,
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 casts a 14-ft
20. A 4-ft pole casts a 2-ft shadow. A tree casts a 6-ft

how far apart are they in km?

**40**

shadow. How tall is the tree?

**6**

shadow. How tall is the tree?

**28**

shadow. How tall is the tree?

**12**

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?

**10**

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

**16**

26. A 8-ft pole casts a 8-ft shadow. A tree casts a 19-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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**12**

40. A map scale is 1 cm = 4 km. If two cities are 8 cm apart on the map, how far apart are they in km?

