

Grade 8 Geometry Worksheet

Name: _____ Date: _____ Score: _____

Answer each geometry question. Write your answer on the line.

1. A right triangle has legs of 7 and 8. What is the hypotenuse? (Round to 2 decimals)

2. A right triangle has legs of 10 and 8. What is the hypotenuse? (Round to 2 decimals)

3. A right triangle has legs of 4 and 4. What is the hypotenuse? (Round to 2 decimals)

4. A right triangle has a hypotenuse of 5 and one leg of 3. What is the other leg? (Round to 2 decimals)

5. A right triangle has a hypotenuse of 8 and one leg of 4. What is the other leg? (Round to 2 decimals)

6. A right triangle has legs of 6 and 6. What is the hypotenuse? (Round to 2 decimals)

7. A right triangle has a hypotenuse of 8 and one leg of 7. What is the other leg? (Round to 2 decimals)

8. A right triangle has legs of 10 and 7. What is the hypotenuse? (Round to 2 decimals)

9. A right triangle has a hypotenuse of 6 and one leg of 4. What is the other leg? (Round to 2 decimals)

10. A right triangle has legs of 3 and 5. What is the hypotenuse? (Round to 2 decimals)

11. A right triangle has a hypotenuse of 13 and one leg of 4. What is the other leg? (Round to 2 decimals)

12. A right triangle has legs of 12 and 4. What is the hypotenuse? (Round to 2 decimals)

13. A right triangle has a hypotenuse of 15 and one leg of 7. What is the other leg? (Round to 2 decimals)

14. A right triangle has a hypotenuse of 12 and one leg of 6. What is the other leg? (Round to 2 decimals)

15. A right triangle has legs of 4 and 3. What is the hypotenuse? (Round to 2 decimals)

16. A right triangle has legs of 10 and 4. What is the hypotenuse? (Round to 2 decimals)

17. A right triangle has legs of 8 and 11. What is the hypotenuse? (Round to 2 decimals)

18. A right triangle has a hypotenuse of 14 and one leg of 10. What is the other leg? (Round to 2 decimals)

19. A right triangle has a hypotenuse of 8 and one leg of 3. What is the other leg? (Round to 2 decimals)

20. A right triangle has a hypotenuse of 10 and one leg of 4. What is the other leg? (Round to 2 decimals)

21. A right triangle has legs of 11 and 12. What is the hypotenuse? (Round to 2 decimals)

22. A right triangle has legs of 11 and 10. What is the hypotenuse? (Round to 2 decimals)

23. A right triangle has a hypotenuse of 12 and one leg of 8. What is the other leg? (Round to 2 decimals)

24. A right triangle has legs of 7 and 7. What is the hypotenuse? (Round to 2 decimals)

25. A right triangle has legs of 6 and 4. What is the hypotenuse? (Round to 2 decimals)

26. A right triangle has legs of 6 and 12. What is the hypotenuse? (Round to 2 decimals)

27. A right triangle has legs of 8 and 7. What is the hypotenuse? (Round to 2 decimals)

28. A right triangle has a hypotenuse of 10 and one leg of 9. What is the other leg? (Round to 2 decimals)

29. A right triangle has a hypotenuse of 7 and one leg of 5. What is the other leg? (Round to 2 decimals)

30. A right triangle has legs of 7 and 3. What is the hypotenuse? (Round to 2 decimals)

31. A right triangle has a hypotenuse of 6 and one leg of 5. What is the other leg? (Round to 2 decimals)

32. A right triangle has legs of 3 and 10. What is the hypotenuse? (Round to 2 decimals)

33. A right triangle has a hypotenuse of 13 and one leg of 9. What is the other leg? (Round to 2 decimals)

34. A right triangle has legs of 11 and 6. What is the hypotenuse? (Round to 2 decimals)

35. A right triangle has legs of 3 and 6. What is the hypotenuse? (Round to 2 decimals)

36. A right triangle has legs of 10 and 10. What is the hypotenuse? (Round to 2 decimals)

37. A right triangle has legs of 3 and 9. What is the hypotenuse? (Round to 2 decimals)

38. A right triangle has legs of 5 and 4. What is the hypotenuse? (Round to 2 decimals)

39. A right triangle has a hypotenuse of 15 and one leg of 14. What is the other leg? (Round to 2 decimals)

40. A right triangle has a hypotenuse of 11 and one leg of 9. What is the other leg? (Round to 2 decimals)

ANSWER KEY

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1. A right triangle has legs of 7 and 8. What is the hypotenuse? (Round to 2 decimals)
10.63
2. A right triangle has legs of 10 and 8. What is the hypotenuse? (Round to 2 decimals)
12.81
3. A right triangle has legs of 4 and 4. What is the hypotenuse? (Round to 2 decimals)
5.66
4. A right triangle has a hypotenuse of 5 and one leg of 3. What is the other leg? (Round to 2 decimals)
4
5. A right triangle has a hypotenuse of 8 and one leg of 4. What is the other leg? (Round to 2 decimals)
6.93
6. A right triangle has legs of 6 and 6. What is the hypotenuse? (Round to 2 decimals)
8.49
7. A right triangle has a hypotenuse of 8 and one leg of 7. What is the other leg? (Round to 2 decimals)
3.87
8. A right triangle has legs of 10 and 7. What is the hypotenuse? (Round to 2 decimals)
12.21
9. A right triangle has a hypotenuse of 6 and one leg of 4. What is the other leg? (Round to 2 decimals)
4.47
10. A right triangle has legs of 3 and 5. What is the hypotenuse? (Round to 2 decimals)
5.83
11. A right triangle has a hypotenuse of 13 and one leg of 4. What is the other leg? (Round to 2 decimals)
12.37
12. A right triangle has legs of 12 and 4. What is the hypotenuse? (Round to 2 decimals)
12.65
13. A right triangle has a hypotenuse of 15 and one leg of 7. What is the other leg? (Round to 2 decimals)
13.27
14. A right triangle has a hypotenuse of 12 and one leg of 6. What is the other leg? (Round to 2 decimals)
10.39
15. A right triangle has legs of 4 and 3. What is the hypotenuse? (Round to 2 decimals)
5
16. A right triangle has legs of 10 and 4. What is the hypotenuse? (Round to 2 decimals)
10.77

17.

18.

19.

20.

A right triangle has legs of 8 and 11. What is the hypotenuse? (Round to 2 decimals)

13.6

A right triangle has a hypotenuse of 14 and one leg of 10. What is the other leg? (Round to 2 decimals)

9.8

A right triangle has a hypotenuse of 8 and one leg of 3. What is the other leg? (Round to 2 decimals)

7.42

A right triangle has a hypotenuse of 10 and one leg of 4. What is the other leg? (Round to 2 decimals)

9.17

21. A right triangle has legs of 11 and 12. What is the hypotenuse? (Round to 2 decimals)

16.28

22. A right triangle has legs of 11 and 10. What is the hypotenuse? (Round to 2 decimals)

14.87

23. A right triangle has a hypotenuse of 12 and one leg of 8. What is the other leg? (Round to 2 decimals)

8.94

24. A right triangle has legs of 7 and 7. What is the hypotenuse? (Round to 2 decimals)

9.9

25. A right triangle has legs of 6 and 4. What is the hypotenuse? (Round to 2 decimals)

7.21

26. A right triangle has legs of 6 and 12. What is the hypotenuse? (Round to 2 decimals)

13.42

27. A right triangle has legs of 8 and 7. What is the hypotenuse? (Round to 2 decimals)

10.63

28. A right triangle has a hypotenuse of 10 and one leg of 9. What is the other leg? (Round to 2 decimals)

4.36

29. A right triangle has a hypotenuse of 7 and one leg of 5. What is the other leg? (Round to 2 decimals)

4.9

30. A right triangle has legs of 7 and 3. What is the hypotenuse? (Round to 2 decimals)

7.62

31. A right triangle has a hypotenuse of 6 and one leg of 5. What is the other leg? (Round to 2 decimals)

3.32

32. A right triangle has legs of 3 and 10. What is the hypotenuse? (Round to 2 decimals)

10.44

33. A right triangle has a hypotenuse of 13 and one leg of 9. What is the other leg? (Round to 2 decimals)

12.53

34. A right triangle has legs of 11 and 6. What is the hypotenuse? (Round to 2 decimals)

35. A right triangle has legs of 3 and 6. What is the hypotenuse? (Round to 2 decimals)

6.71

36. A right triangle has legs of 10 and 10. What is the hypotenuse? (Round to 2 decimals)

14.14

9.38

37. A right triangle has legs of 3 and 9. What is the hypotenuse? (Round to 2 decimals)
9.49
38. A right triangle has legs of 5 and 4. What is the hypotenuse? (Round to 2 decimals)
6.4
39. A right triangle has a hypotenuse of 15 and one leg of 14. What is the other leg? (Round to 2 decimals)
5.39
40. A right triangle has a hypotenuse of 11 and one leg of 9. What is the other leg? (Round to 2 decimals)
6.32