

Name: _____

Date: _____

Pythagorean Theorem

Grades 6 – 8 • 20 questions • Show your work

1. A right triangle has legs of 10 cm and 24 cm. Find the **hypotenuse**. _____
 2. A right triangle has legs of 8 cm and 15 cm. Find the **hypotenuse**. _____
 3. A right triangle has legs of 20 cm and 21 cm. Find the **hypotenuse**. _____
 4. A right triangle has legs of 6 cm and 8 cm. Find the **hypotenuse**. _____
 5. A right triangle has a hypotenuse of 29 cm and one leg of 20 cm. Find the **other leg**. _____
 6. A right triangle has legs of 9 cm and 40 cm. Find the **hypotenuse**. _____
 7. A right triangle has legs of 3 cm and 4 cm. Find the **hypotenuse**. _____
 8. A right triangle has legs of 7 cm and 24 cm. Find the **hypotenuse**. _____
 9. A right triangle has legs of 5 cm and 12 cm. Find the **hypotenuse**. _____
 10. A right triangle has legs of 9 cm and 12 cm. Find the **hypotenuse**. _____
 11. A right triangle has a hypotenuse of 25 cm and one leg of 7 cm. Find the **other leg**. _____
 12. A right triangle has a hypotenuse of 39 cm and one leg of 15 cm. Find the **other leg**. _____
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- 13.** A right triangle has a hypotenuse of 26 cm and one leg of 10 cm. Find the **other leg**. _____
- 14.** A right triangle has a hypotenuse of 17 cm and one leg of 8 cm. Find the **other leg**. _____
- 15.** A right triangle has a hypotenuse of 41 cm and one leg of 9 cm. Find the **other leg**. _____
- 16.** A right triangle has a hypotenuse of 5 cm and one leg of 3 cm. Find the **other leg**. _____
- 17.** A right triangle has legs of 15 cm and 36 cm. Find the **hypotenuse**. _____
- 18.** A right triangle has a hypotenuse of 15 cm and one leg of 9 cm. Find the **other leg**. _____
- 19.** A right triangle has a hypotenuse of 13 cm and one leg of 5 cm. Find the **other leg**. _____
- 20.** A right triangle has a hypotenuse of 10 cm and one leg of 6 cm. Find the **other leg**. _____
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Answer Key – Pythagorean Theorem

1. *26 cm*

2. *17 cm*

3. *29 cm*

4. *10 cm*

5. *21 cm*

6. *41 cm*

7. *5 cm*

8. *25 cm*

9. *13 cm*

10. *15 cm*

11. *24 cm*

12. *36 cm*

13. *24 cm*

14. *15 cm*

15. *40 cm*

16. *4 cm*

17. *39 cm*

18. *12 cm*

19. *12 cm*

20. *8 cm*
