

Use the Pythagorean theorem to find a leg

NAME	DATE	SCORE
		/ 10

- 1** A right triangle has a hypotenuse of 17 centimetres and one leg of 8 centimetres. What is the length, in centimetres, of the other leg?

- 2** A 10-metre ladder leans against a wall, and the top of the ladder reaches 8 metres up the wall. How far, in metres, is the bottom of the ladder from the wall?

- 3** A right triangle has a hypotenuse of 5 cm and one leg of 4 cm. What is the length, in centimetres, of the other leg?

- 4** A rectangular field is 40 metres long. A straight path across the field from one corner to the opposite corner is 50 metres long. How wide, in metres, is the field?

- 5** A right triangle has a hypotenuse of 25 m and one leg of 24 m. What is the length, in metres, of the other leg?

- 6** A 5-metre ladder leans against a wall. The bottom of the ladder is 3 metres from the wall. How high up the wall, in metres, does the top of the ladder reach?

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- 7** A right triangle has a hypotenuse of 10 metres and one leg of 8 metres. What is the length, in metres, of the other leg?

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- 9** A right triangle has a hypotenuse of 20 centimetres and one leg of 12 centimetres. What is the length, in centimetres, of the other leg?

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- 8** A rectangular field is 120 metres long. A straight path across the field from one corner to the opposite corner is 130 metres long. How wide, in metres, is the field?

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- 10** A rectangular field is 96 metres long. A straight path across the field from one corner to the opposite corner is 104 metres long. How wide, in metres, is the field?

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1 15

3 3

5 7

7 6

9 16

2 6

4 30

6 4

8 50

10 40