

Use the Pythagorean theorem to find a leg

NAME	DATE	SCORE / 10
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- 1** A right triangle has a hypotenuse of 15 cm and one leg of 12 cm. What is the length, in centimetres, of the other leg?

- 2** 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?

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

- 4** 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?

- 5** A right triangle has a hypotenuse of 10 metres and one leg of 6 metres. What is the length, in metres, of the other leg?

- 6** 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?

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- 7** A right triangle has a hypotenuse of 26 centimetres and one leg of 24 centimetres. What is the length, in centimetres, of the other leg?

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- 9** A right triangle has a hypotenuse of 29 metres and one leg of 21 metres. What is the length, in metres, of the other leg?

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- 8** A rectangular field is 80 metres long. A straight path across the field from one corner to the opposite corner is 100 metres long. How wide, in metres, is the field?

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- 10** A 10-metre ladder leans against a wall. The bottom of the ladder is 6 metres from the wall. How high up the wall, in metres, does the top of the ladder reach?

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3	4
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5	8
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7	10
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9	20
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2	50
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4	4
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6	6
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8	60
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10	8
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