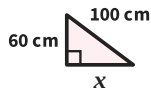


Pythagoras: finding a shorter side



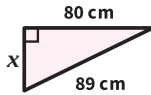
Exit ticket **ANSWERS** Name _____

- 1 Find the length x .



- 1 Square the two sides you know.
 $x^2 = 100^2 - 60^2$
 $x^2 = 10000 - 3600$
- 2 Subtract.
 $x^2 = 6400$
- 3 Square root.
 $x = \sqrt{6400} = 80$ cm

- 2 Find the length x .



- 1 Square the two sides you know.
 $x^2 = 89^2 - 80^2$
 $x^2 = 7921 - 6400$
- 2 Subtract.
 $x^2 = 1521$
- 3 Square root.
 $x = \sqrt{1521} = 39$ cm

- 3 A triangle has a right angle. Its hypotenuse is 61 m and one short side is 60 m. Find the other short side.

11 m

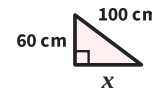
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Pythagoras: finding a shorter side



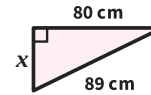
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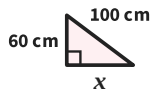
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Pythagoras: finding a shorter side



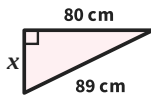
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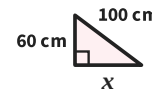
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Pythagoras: finding a shorter side



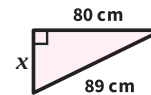
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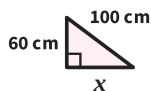
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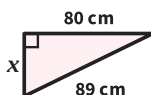
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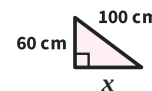
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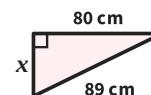
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