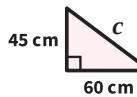


Pythagoras: finding the hypotenuse

Exit ticket **ANSWERS** Name _____

- 1 Find the length c .



- 1 Square the two short sides.

$$c^2 = 45^2 + 60^2$$

$$c^2 = 2025 + 3600$$

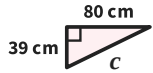
- 2 Add.

$$c^2 = 5625$$

- 3 Square root.

$$c = \sqrt{5625} = 75 \text{ cm}$$

- 2 Find the length c .



- 1 Square the two short sides.

$$c^2 = 39^2 + 80^2$$

$$c^2 = 1521 + 6400$$

- 2 Add.

$$c^2 = 7921$$

- 3 Square root.

$$c = \sqrt{7921} = 89 \text{ cm}$$

- 3 A triangle has a right angle. Its short sides are 35 m and 84 m. Find the length of its hypotenuse.

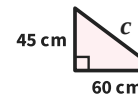
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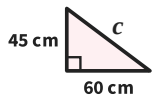
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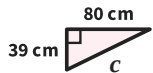
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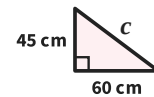
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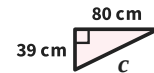
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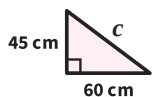
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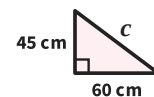
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