

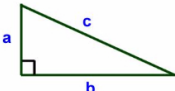


Pythagoras' Theorem

Name:

Date:

For the right angled triangle below, what is the equation for Pythagoras's theorem?



A $a^2 - b^2 = c^2$ B $a^2 = c^2 + b^2$
C $a^3 + b^3 = c^3$ D $a^2 + b^2 = c^2$

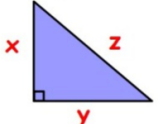
Correct Answer: A B C D

Explanation:

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National 5 Maths: Pythagoras's Theorem

Which is the **longest** side in this triangle?



A x B y
C z D they're all equal

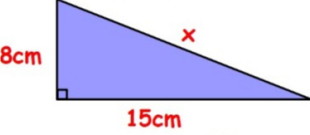
Correct Answer: A B C D

Explanation:

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National 5 Maths: Pythagoras's Theorem

Calculate the length of the missing side **x**.



A 12.7cm B 23cm
C 17cm D 289cm

Correct Answer: A B C D

Explanation:

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National 5 Maths: Pythagoras's Theorem

Here are lengths of sides of four triangles.
Which triangle is right-angled?

- A** 5cm, 12cm, 17cm
- B** 11cm, 11cm, 18cm
- C** 5cm, 6cm, 7cm
- D** 21cm, 28cm, 35cm

Correct Answer: A B C D

Explanation:

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National 5 Maths: Pythagoras's Theorem

An equilateral triangle has side of length 8cm.
Calculate its height, to 2 decimal places.

- A** 48cm
- B** 6.9cm
- C** 11.3cm
- D** 13.9cm

Correct Answer: A B C D

Explanation:

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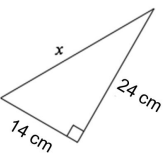
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Calculate the value of x .

Give your answer to 1 decimal place where appropriate.



- A** 27.8 cm
- B** 38 cm
- C** 19.5 cm
- D** 772 cm

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Correct Answer: A B C D

Explanation:

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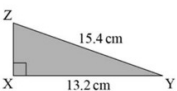
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XYZ is a right-angled triangle.
Calculate the length of XZ.
Give your answer correct to 2 decimal places.



- A:** 62.92
- B:** 7.93
- C:** 20.28
- D:** 7.17

Correct Answer: A B C D

Explanation:

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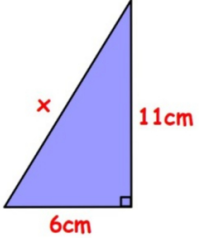
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National 5 Maths: Pythagoras's Theorem

Which of the following is an expression of the missing side x ?



A 157
 B $\sqrt{157}$
 C 85
 D $\sqrt{85}$

Correct Answer: A B C D

Explanation:

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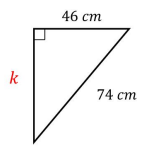
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What is the length of side k to two decimal places?



A 87.13 cm
 B 3360 cm
 C 57.97 cm
 D 28 cm

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Correct Answer: A B C D

Explanation:

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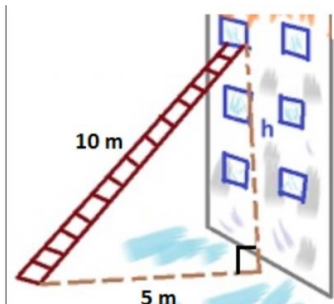
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Find the height 'h' up the building the ladder reaches

A) 5m B) 15m C) $\sqrt{75}$ m D) $\sqrt{25}$ m



Correct Answer: A B C D

Explanation:

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In this triangle a right-angled Triangle?



(Not drawn to scale)

A Yes
 B No
 C Not enough information
 D A scale drawing is needed

Correct Answer: A B C D

Explanation:

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AQA
Realising potential

An equilateral triangle has sides of length 8 cm.
Calculate the perpendicular height of the triangle.

A	B	C	D
48 cm	6.93 cm	11.31 cm	13.86 cm

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Correct Answer: A B C D

Explanation:

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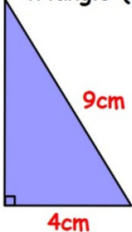
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National 5 Maths: Pythagoras's Theorem

Calculate the area of the right-angled triangle (to one decimal place)



A	19.7cm²
B	18.0cm²
C	16.1cm²
D	You can't find the area

Correct Answer: A B C D

Explanation:

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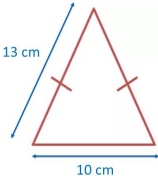
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What is the area of this triangle?



A	B	C	D
60 cm ²	12 cm ²	65 cm ²	120 cm ²

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Correct Answer: A B C D

Explanation:

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