Use a scientific calculator and this formula

$$mystery = \sqrt{longest^2 - shorter^2}$$

1. Here is a right angled triangle.



 $\ldots \ldots \ldots m$

2. Complete this formula mystery = $\sqrt{\dots est^2 - \dots er^2}$

Use the words long and short

3. Complete this formula mystery = $\sqrt{\dots est^2 - \dots er^2}$

Use the words long and short

4. Here is a right angled triangle.



Diagram NOT accurately drawn

AB = 20 cm

 $\mathrm{BC}=15~\mathrm{cm}$

Work out the length of AC.

Give your answer correct to 1 decimal place.

..... cm

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5. Complete this formula	mystery = $$	2	2



..... cm

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8. Complete this formula	mystery = $$	

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9. Complete this formula	mystery = $$	

10. Complete this formula mystery = $\sqrt{\Box}$ –

11. The diagram shows right angled triangle ABC.



BC represents a ladder resting on the ground AB and against a wall AC. The distance AB between the base of the wall and the foot of the ladder is 2.5 m The length of the ladder BC is 6.5 m Calculate the height AC.

..... m

Answers

1. 7.5 m 2. mystery = $\sqrt{longest^2 - shorter^2}$ 3. mystery = $\sqrt{longest^2 - shorter^2}$ 4. 13.2 cm 5. mystery = $\sqrt{longest^2 - shorter^2}$ 6. mystery = $\sqrt{longest^2 - shorter^2}$ 7. 10 cm 8. mystery = $\sqrt{longest^2 - shorter^2}$ 9. mystery = $\sqrt{longest^2 - shorter^2}$ 10. mystery = $\sqrt{longest^2 - shorter^2}$ 11. 6 m