

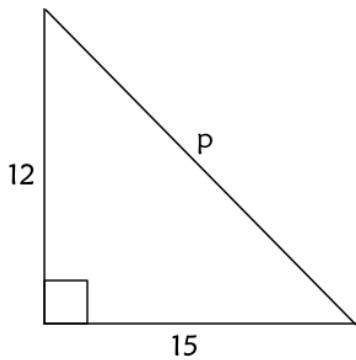


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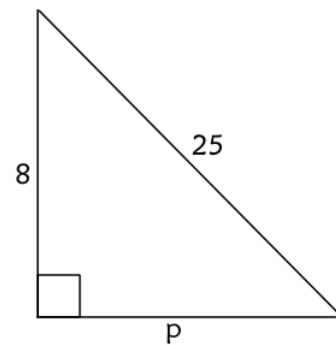
Theorem of Pythagoras

1. Calculate the variable correct to two decimal places.

1.1

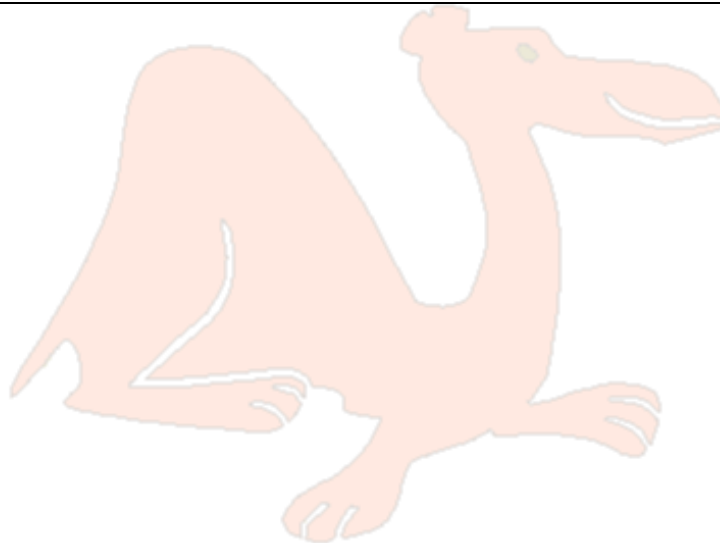


1.2



1.3 In a right-angled triangle KLG, $\hat{K} = 90^\circ$, $k = 22$ cm and $l = 11$ cm.
Calculate the length of g.

1.4 A grandfather clock shows that it is exactly 3h00. If the length of the long arm is 195 mm and the length of the short arm is 139 mm, what is the distance between the tips of the arms?





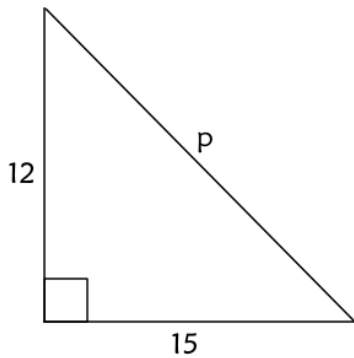
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MEMO

1. Calculate variable correct to two decimal places.

[7.1.1.1 to 7.1.1.6]

1.1



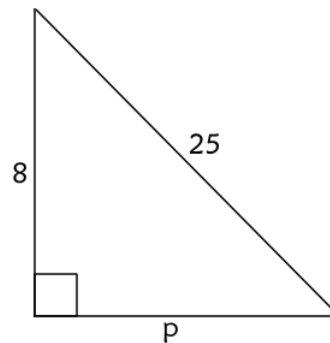
$$p^2 = 12^2 + 15^2$$

$$p^2 = 144 + 225$$

$$p^2 = 369$$

$$p = 19,21$$

1.2



$$25^2 = 8^2 + p^2$$

$$p^2 = 625 - 64$$

$$p^2 = 561$$

$$p = 23.69$$

1.3 Calculate the length of g.

$$k^2 = l^2 + g^2$$

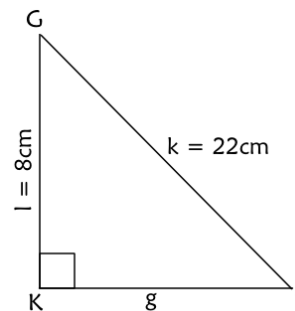
$$22^2 = 8^2 + g^2$$

$$g^2 = 22^2 - 8^2$$

$$g^2 = 484 - 64$$

$$g^2 = 420$$

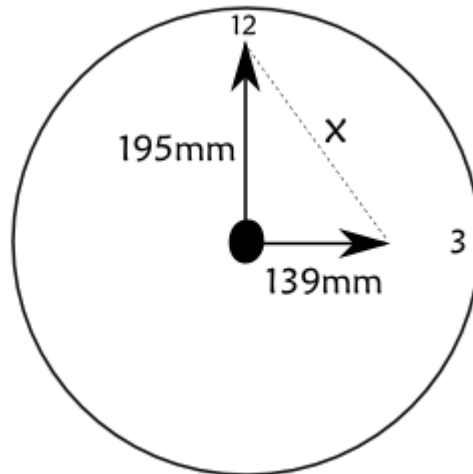
$$g = 20.49$$





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- 1.4 A grandfather clock shows that it is exactly 3h00. If the length of the long arm is 195 mm and the length of the short arm is 139 mm, what is the distance between the tips of the arms?



$$x^2 = 195^2 + 139^2$$

$$x^2 = 38025 + 19321$$

$$x^2 = 57346$$

$$x = 239,47mm$$

