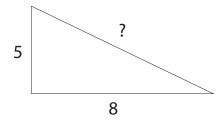
## Pythagoras'Theorem

"For any right-angled triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides."  $a^2 + b^2 = c^2$ 

So, to find the hypotenuse of a right-angled triangle;

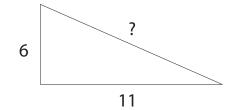


We know  $a^2 + b^2 = c^2$ , so  $5^2 + 8^2 = c$ 

$$5^2 + 8^2 = 0$$

$$25 + 64 = c^2 89 = c^2$$
  
9.4 (1dp) = c

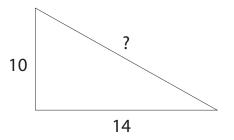
Find the hypotenuse of these triangles yourself:

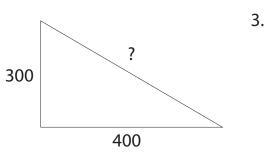


1.

$$- ^2 + - ^2 = C^2$$
 $- ^2 + - ^2 = C^2$ 
 $- ^2 + - ^2 = C^2$ 
 $- ^2 + - ^2 = C^2$ 

2.





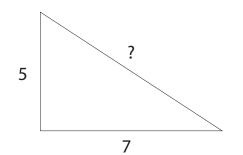
9 16

4.

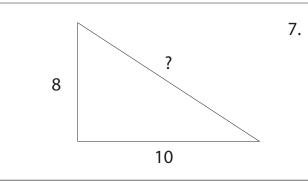


63

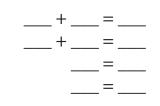
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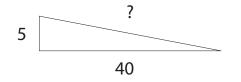
6.



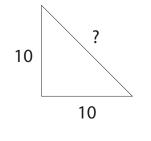
**7.** 

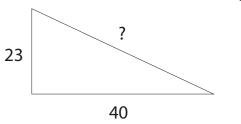


8.



9.





10.