

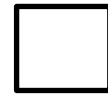
Objective: Calculate hypotenuse of a right angled triangle



Met



Partially
Met



Not Met

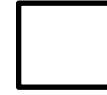
Work on the following sections:



Column 1



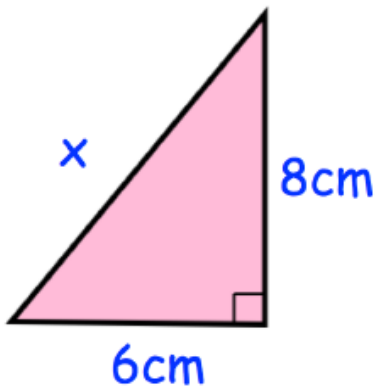
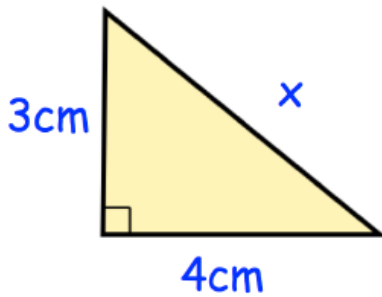
Column 2



Extension

Column 1

Calculate the missing length:

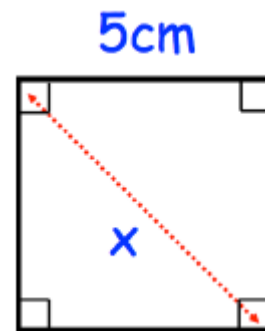


Column 2

a) An airplane is flying from Redville to Leek. The airplane flies 50 miles East and then 180 miles South. How far is Leek from Redville directly?

b)

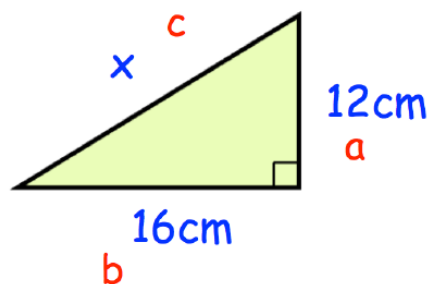
Shown is a square with side length 5cm. Find the length of the diagonal, x.



Extension:

Shown is Ellie's working out for calculating the missing side.

- What mistake has Ellie made?
- Correct the answer



$$\begin{aligned}
 a^2 + b^2 &= c^2 \\
 12^2 + 16^2 &= x^2 \\
 144 + 256 &= x^2 \\
 400 &= x^2 \\
 x^2 &= 400 \\
 x &= 200\text{cm}
 \end{aligned}$$