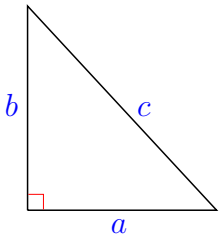
Pythagoras' Theorem

i.
- State Pythagoras' Theorem.
- Make a the subject of Pythagoras' Theorem.
- Make b the subject of Pythagoras' Theorem.

ii. **Find the following length of the hypotenuse c, using the given information. Give measurements to 1 d.p.**



- Given that $a = 3$cm, $b = 4$cm
- Given that $a = 6$cm, $b = 8$cm
- Given that $a = 5$mm, $b = 12$mm
- Given that $a = 1$m, $b = 1$m
- Given that $a = 8$ feet, $b = 15$ feet

iii. **Find the following length of the side a, using the given information. Give measurements to 1 d.p.**

- Given that $b = 9$m, $c = 41$m
- Given that $b = 63$mm, $c = 65$mm
- Given that $b = 11$cm, $c = 61$cm
- Given that $b = 3$ inches, $c = 6$ inches
- Given that $b = 20$m, $c = 30$m

iv. **Find the following length of the side b, using the given information. Give measurements to 1 d.p.**

- Given that $a = 9$m, $c = 15$m
- Given that $a = 10$cm, $c = 26$cm
- Given that $a = \sqrt{3}$mm, $c = 2$mm
- Given that $a = 5$cm, $c = 15$cm
- Given that $a = 10$mm, $c = 100$mm

v. **Use Pythagoras' Theorem to find the perimeter of a right angle triangle with sides $a =$ 5cm and $b =$ 6cm**