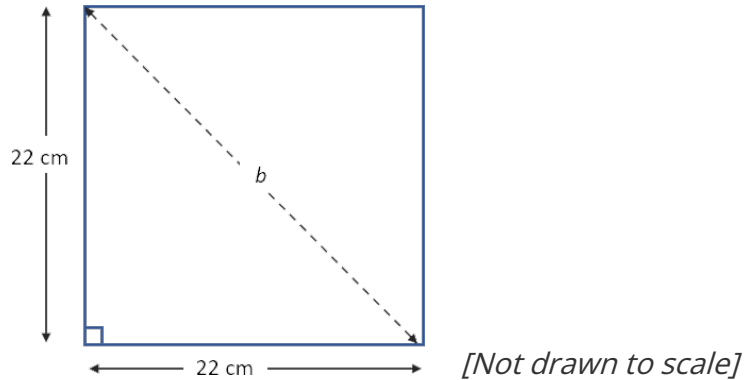


# Pythagoras' theorem

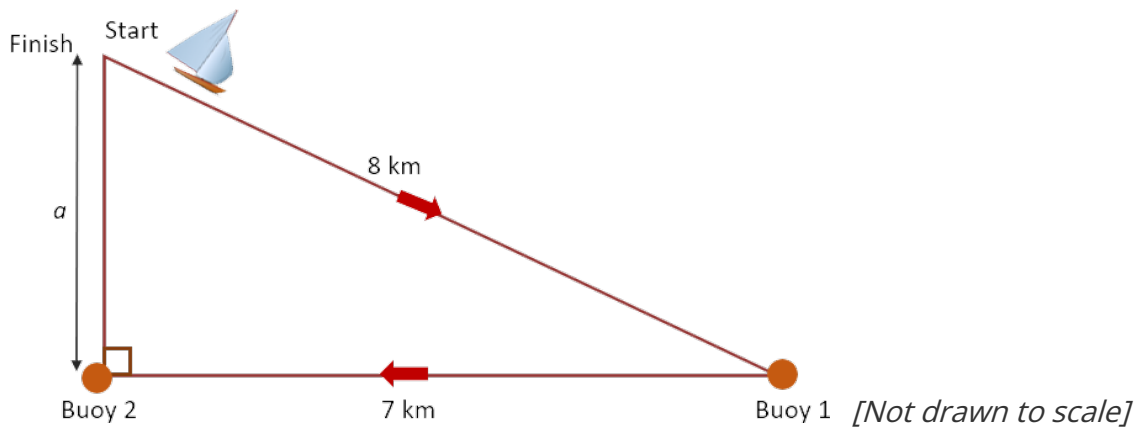
This task is about using pythagoras' theorem to solve problems with right-angled triangles.

a) A square piece of paper has sides of 22 cm.



How long would the diagonal line between the two corners be, shown by 'b'?  cm

b) In a yacht race it is 8 km from the start line to Buoy 1, and 7 km from Buoy 1 to Buoy 2.



How far would it be from Buoy 2 to the finish line, as shown by 'a'?

c) The diagonal line on the flag of Papua New Guinea is 90 cm. The flag is 54 cm in height.



How wide would the flag be, as shown by 'c'?  cm