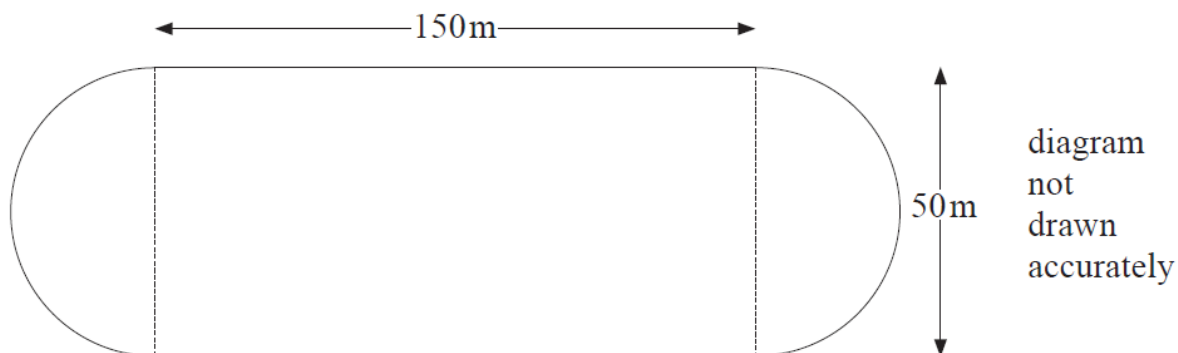


M3 = 30 days to go!

9 Sue is training to compete in a 10km walk.

A diagram of her local athletics track is shown below.

The track consists of a rectangle and two semicircles.



How many complete laps are needed to ensure she walks 10 km?

You must show all your working.

Answer _____ [4]

25

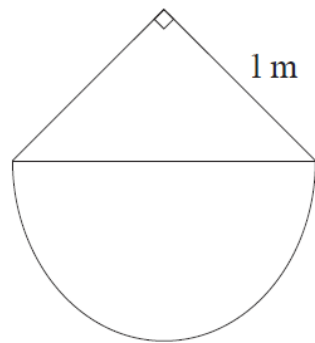


diagram not
drawn accurately

The composite shape consists of a right-angled isosceles triangle and a semicircle.

(a) Show that the area of the composite shape is approximately 1.285 m^2

[4]

(b) Find the force applied to the area of the composite shape when the pressure is 5 N/m^2

Answer _____ N [2]