

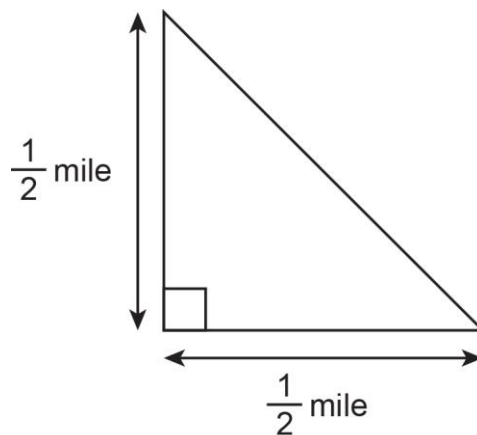
Exam questions

Question 1

Usha is a local councillor.

She wants to write about a new housing development.

The diagram shows the space for the new development.



Usha thinks that the area of the development will be greater than the total area of 50 football pitches.

Usha knows

- a football pitch is rectangular 100 m by 50 m
- 1 mile = 1600 m.

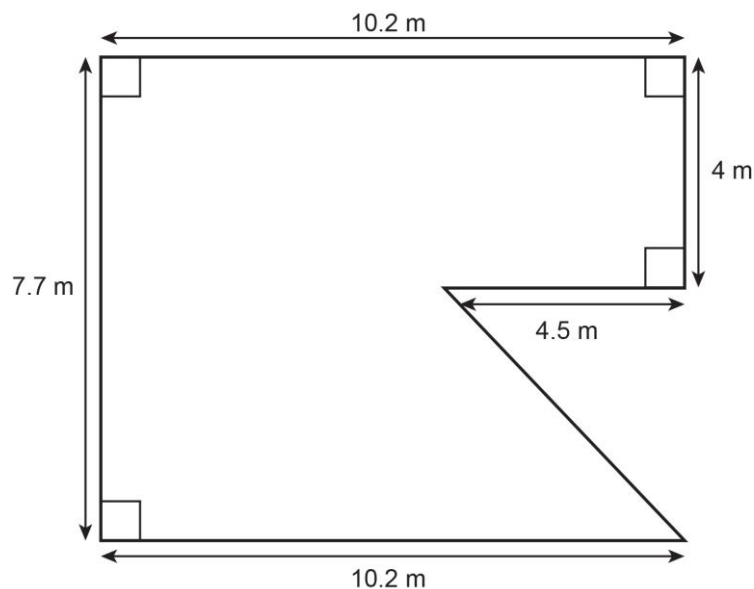
a) Will the area of the development be greater than the total area of 50 football pitches?

b) Use reverse calculations to show a check for your answer.

Question 2

Maninder is the manager of a restaurant.
She wants to cover the floor of the restaurant with tiles.

This is a plan of the floor of the restaurant.



Maninder will buy the tiles in packs.

Each pack covers an area of 0.945 m^2 .
One pack of tiles costs £16.15.

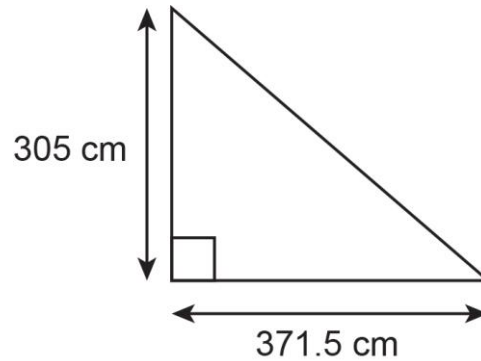
Tiles can be cut and joined.

Work out the total cost of the packs of tiles Maninder will buy.

Question 3

George will cover part of a floor with tiles.

The part of the floor is in the shape of a triangle as shown.



George buys tiles in packs.

Each pack covers 1 m^2 and costs £39.95.

The tiles can be cut and joined.

George gets $\frac{1}{3}$ off the cost of the packs of tiles.

Work out the lowest cost of the tiles for George.