



Year 6 Transition Task

Transition Task

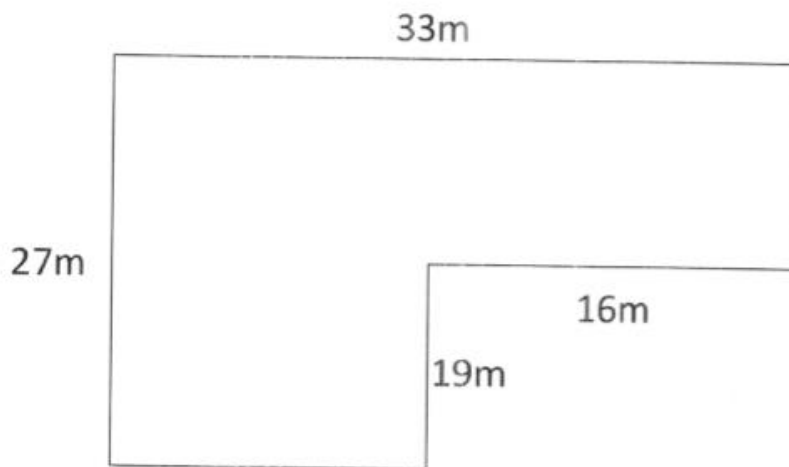


Diagram not to scale

The diagram shows a plan view of a school classroom. By finding the lengths of the missing sides, find the Area and Perimeter of the classroom.

Show all your working and present your solution in a neat and logical way which shows how you have calculated your answers. You may not use a calculator.

Extension

The classroom is to be carpeted. This requires carpet grip to run around the outer edges of the room, and carpet to cover the floor area.

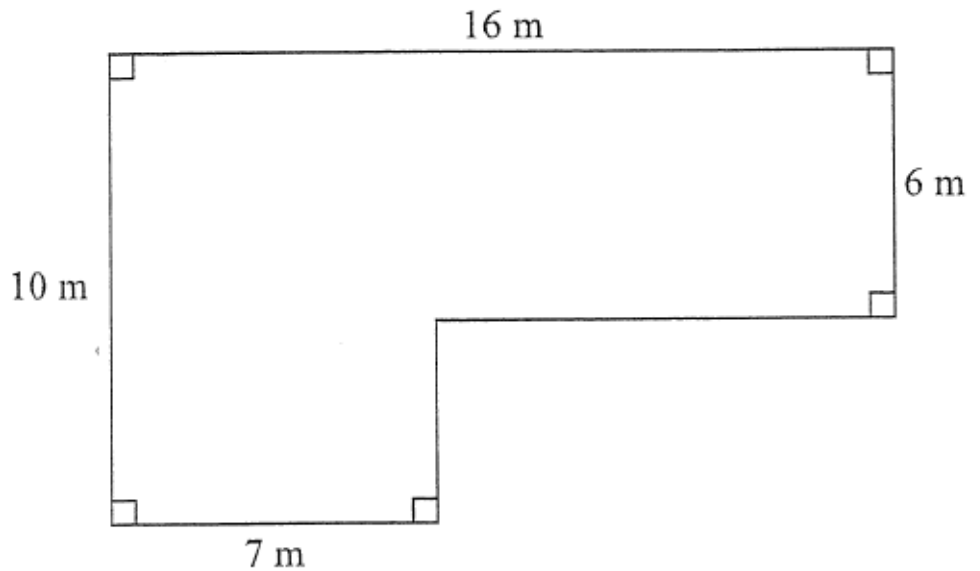
Carpet costs £9.20 per square metre, and carpet grip costs 57p per metre.

Work out the total cost of materials to carpet the room. Show all your workings. You may not use a calculator.



Extension

1.
The diagram shows the plan of a small field.



Kevin is going to keep some pigs in the field.
Each pig needs an area of 36 square metres.

Work out the greatest number of pigs Kevin can keep in the field.

2.
The diagram shows a rectangle and a square.

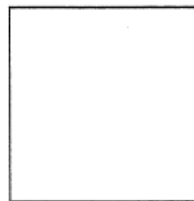
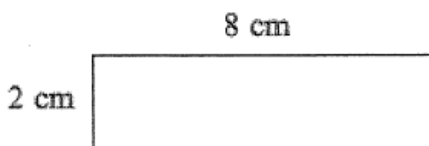


Diagram NOT
accurately drawn

The perimeter of the rectangle is the same as the perimeter of the square.

Work out the length of one side of the square.



Extension

3. The diagram shows the plan of a floor.

Angie is going to varnish the floor.

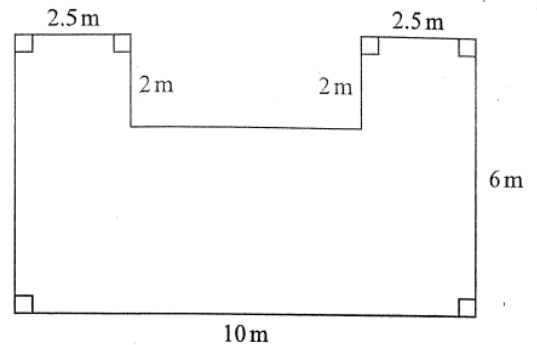
She needs 1 litre of varnish for 5 m^2 of floor.

There are 2.5 litres of varnish in each tin of varnish.

Angie has 3 tins of varnish.

Does she have enough varnish for all the floor?

You must show all your working.



4. The diagram shows a path around a pond.

The pond is in the shape of a rectangle with length 7 m and width 4 m.
The path is 3 m wide.

Ali is going to cover the path with gravel.
One bag of gravel will cover 10 m^2 of the path.

How many bags of gravel does Ali need to buy?
You must show your working.

