Area Applications GCSE Maths EDEXCEL Past Papers Questions
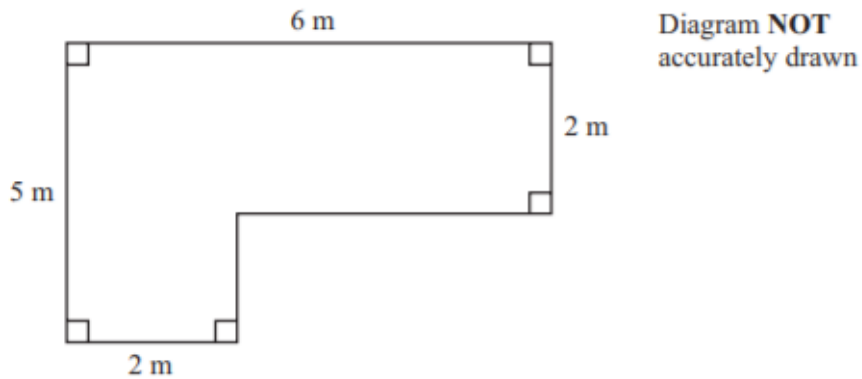
None Calculator

1.

The diagram shows the plan of Mrs Phillips' living room.

6 m

Diagram **NOT** accurately drawn

2 m

5 m

2 m

Mrs Phillips is going to cover the floor with floor boards.
One pack of floor boards will cover 2.5 m².

How many packs of floor boards does she need?
You must show your working.

(Total for Question 6 is 4 marks)

2.

Janice cuts a triangle from a rectangular piece of metal.
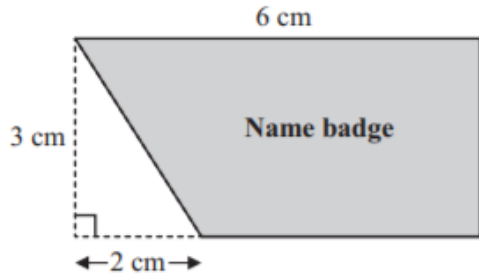She uses the rest of the metal to make a name badge.

6 cm

Diagram **NOT**
accurately drawn

3 cm

Name badge

←2 cm→

The rectangle has length 6 cm and width 3 cm.
The right-angled triangle has base 2 cm and height 3 cm.

Work out the area of the name badge.

(Total for Question 10 is 4 marks)

3.

The diagram shows the floor plan of Jill's dining room.

4.5 m
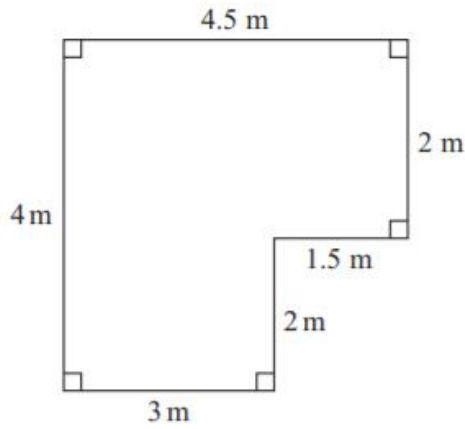
2 m

4 m

1.5 m

2 m

3 m

Diagram **NOT** accurately drawn

Jill is going to cover the floor with wooden floorboards.

The floorboards are sold in packs.
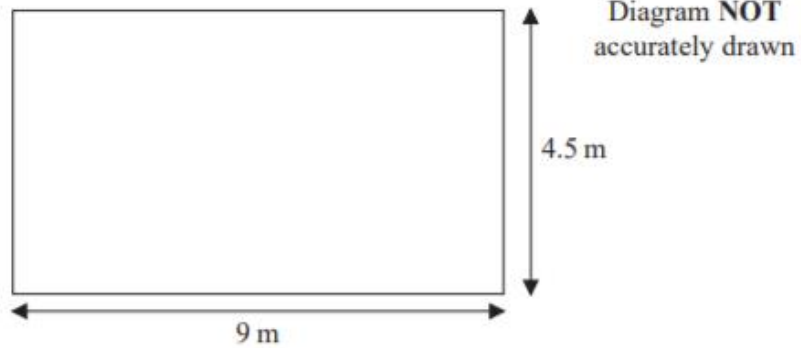One pack of floorboards will cover $2.25 \, m^2$.

Work out how many packs Jill needs.
You must show all your working.

(Total for Question 8 is 4 marks)

4.

The diagram shows a rectangular floor.

Diagram **NOT** accurately drawn

4.5 m

9 m

Toji is going to cover the floor with floor boards.
Each floor board is 0.1 m wide and 1.5 m long.

Work out the smallest number of floor boards Toji needs.

(Total for Question 3 is 3 marks)

5.

Mrs Kunal's garden is in the shape of a rectangle.
Part of the garden is a patio in the shape of a triangle.
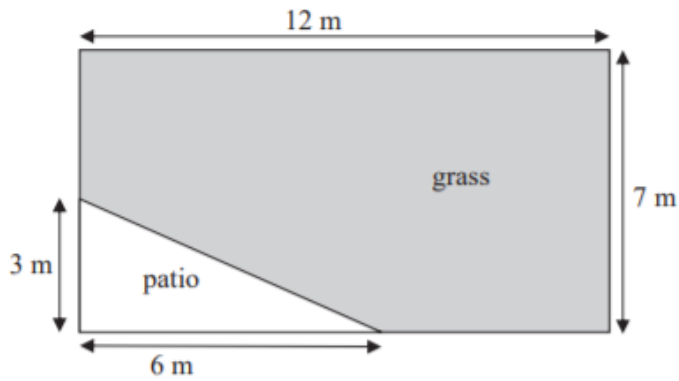The rest of the garden is grass.
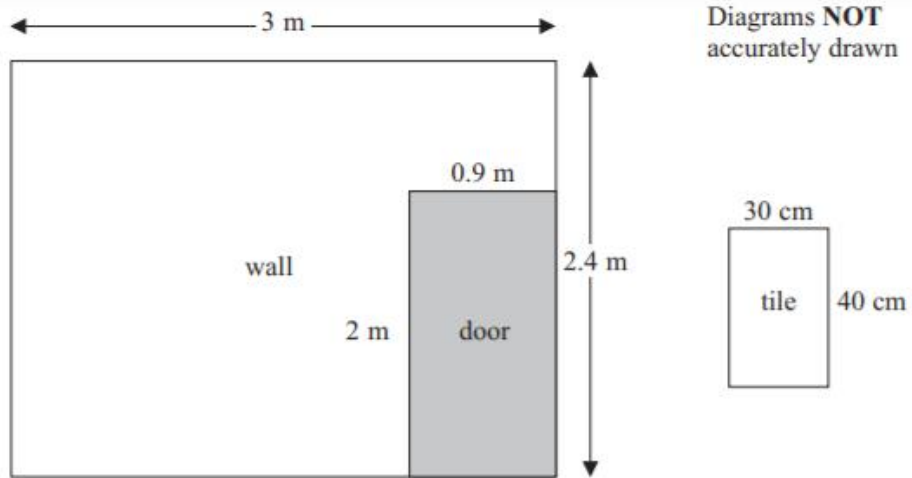

Mrs Kunal wants to spread fertiliser over all her grass.

One box of fertiliser is enough for 32 m² of grass.

How many boxes of fertiliser will she need?
You must show your working.

(Total for Question 8 is 4 marks)

6.

Diagrams **NOT**
accurately drawn

Neil is going to cover the wall completely with tiles.
Each tile has a width of 30 cm and a height of 40 cm.

The tiles are sold in packs.
There are 6 tiles in each pack.
Each pack costs £15

Work out the least amount of money Neil needs to pay for the tiles.
You must show all your working.

£ ....

(Total for Question 6 is 4 marks)

7.

Andy is going to cover a wall with tiles.

Diagram **NOT** accurately drawn

wall   2.5 m

3 m

tile   25 cm
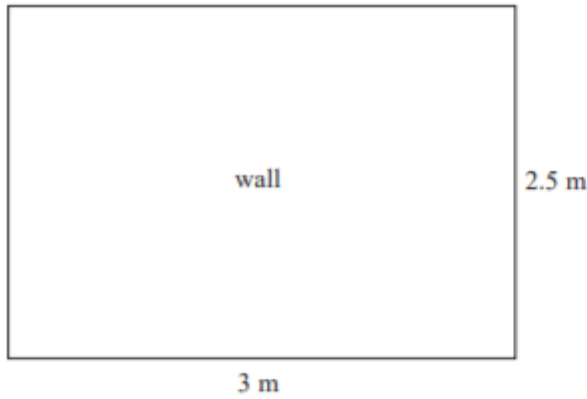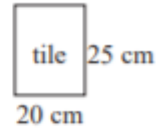
20 cm

The wall is in the shape of a rectangle.
The wall is 3 m wide and 2.5 m high.
The tiles are rectangles 20 cm wide and 25 cm high.

The tiles are sold in boxes.
There are 20 tiles in each box.
Each box of tiles costs £8.50

Work out the total cost of the boxes of tiles Andy needs to buy.
You must show all your working.

£ ....

(Total for Question 5 is 5 marks)