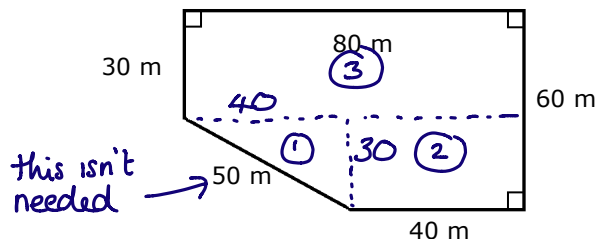


How to ...

The diagram shows the plan of a playground.



Bill is going to cover the playground with tarmac. It costs £2.56 to cover each square metre with tarmac.

Work out the total cost of the tarmac Bill needs.

$$\text{shape (1)} = \frac{1}{2} \times 40 \times 30 = 600 \text{ m}^2$$

$$\text{shape (2)} = 40 \times 30 = 1200 \text{ m}^2$$

$$\text{shape (3)} = 30 \times 80 = 2400 \text{ m}^2$$

$$\text{Total area} = 600 + 1200 + 2400 = 4200 \text{ (4)}$$

$$\text{Total cost} = 4200 \times 2.56 = 10752$$

The cost of the tarmac is £10,752

Now have a go yourself ...

1) Karl wants to make a rectangular lawn in his garden, he wants the lawn to be 30 m by 10 m. Karl buys rectangular strips of turf 5 m long and 1 m wide. Each strip of turf costs £3.49

Work out the total cost of the turf that Karl needs to buy.

2) A wall is a 300 cm by 250 cm rectangle. The wall is to be tiled. The tiles are squares of side 50 cm.

Work out how many tiles are needed.

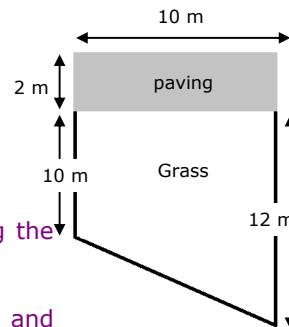
3) A rectangle is 9 cm by 4 cm. A square has the same area as the rectangle. Work out the length of the side of the square.

4) A landscape gardener charges:

£40 per square metre for levelling the ground and laying paving stones.

£15 per square metre for levelling the ground and sowing grass seed.

Calculate the cost of both paving and seeding the garden shown on the right.



MAKE SURE YOU WRITE A STATEMENT WITH YOUR FINAL ANSWER INCLUDED.

Exam Questions

Mel has saved £600 to spend on carpeting her front room.

There are four types of carpet that she likes:

Natural twist £14.50 per m^2

Medium twist £17.60 per m^2

Heavy weave £19.00 per m^2

Luxury pile £24.90 per m^2 .

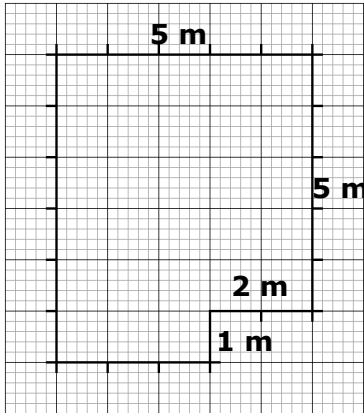
She also needs to buy underlay which is available in two types:

Super cushion at £4.00 per m^2

Cushion at £2.00 per m^2 .

Fitting is £50 extra.

What can she afford to buy?



(5)

Ready to be marked ?

Checklist



Answer checked



Working out shown



Keywords



Things to remember ...



What went well ...

Teacher comment ..