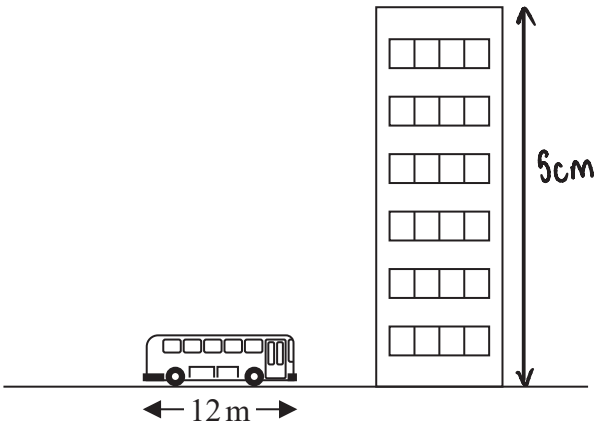
1.



The picture shows a bus next to a building.
The bus has a length of 12 m.

The bus and the building are drawn to the same scale.

Work out an estimate for the height, in metres, of the building.

2cm = 12m
(÷2) (÷2)
1cm = 6m

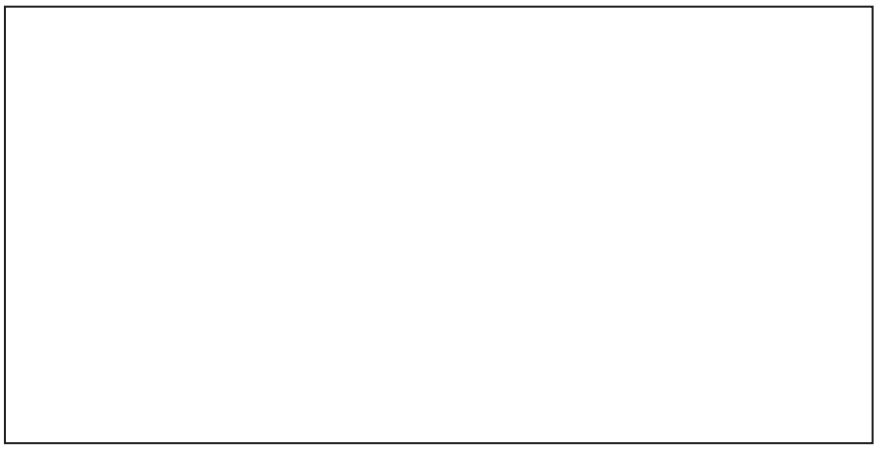
1cm = 6m
×5
5cm = 30m

..... 30 m

(Total for Question is 2 marks)

2. The diagram shows a scale drawing of a tennis court.

(11.3 → 11.7) 11.5 (1) measured with a ruler



(5.6 → 6.0) 5.8cm

The scale of the drawing is 1 : 200 1cm on paper = 200cm in real life

Work out the perimeter of the real tennis court.
Give your answer in metres.

Finding actual dimensions:

width: 5.8 x200 = 1160cm (1)
length: 11.5 x200 = 2300cm

Perimeter of real rectangle:

(2x width) + (2x height) = (2x1160) + (2x2300)
= 6920cm (1)

Converting into metres:

÷100
cm ⇄ m
x100

6920 ÷100 = 69.2m
(1)

Answer range:
67.6 → 70.8

69.2 (1) ..... metres

(Total for Question is 5 marks)

3. The length of a plane is 19.2 metres.

Lukas buys a scale model of the plane.
The scale of the model is 1 : 24

Work out the length of the scale model of the plane.
Give your answer in centimetres.

1m = 100cm
x19.2 ↓ ↓ x19.2 (1)
19.2m = 1920cm

$\frac{1920}{24} = 80$ cm (1)

80 (1)

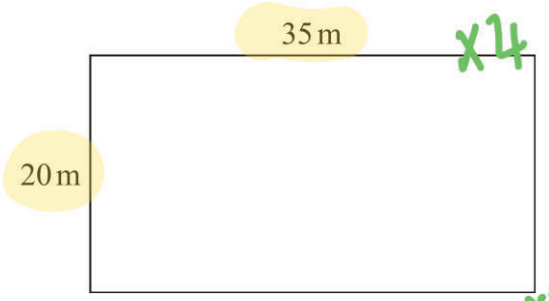
..... centimetres

£4500 x 1.8% → convert % to decimal by ÷100 → $\frac{1.8}{100} = 0.018$
£4500 x 0.018
= £81 (1)
↳ Each year get £81 in interest

£81 x 3 = £243

243 (1)

4. The diagram shows a rectangle.



1cm = 5m
x4
4cm = 20m
x4
(1)
1cm = 5m
x7
7cm = 35m
x7

On the centimetre grid below, draw an accurate scale drawing of this rectangle.
Use a scale of 1 cm to represent 5 m.