Name: SOLUTIONS

GCSE (1 - 9)

Scale Drawings

Buy me a coffee

Solutions by
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More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
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Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 1F, Q13
2	Edexcel, GCSE, Autumn 2017, Paper 3F, Q8
3	Edexcel, GCSE, Summer 2018, Paper 3F, Q18
4	Edexcel, GCSE, Summer 2022, Paper 2F, Q16
5	Edexcel, GCSE, Summer 2022, Paper 3F, Q13

1

The diagram shows a tree and a man.



The man is of average height.
The tree and the man are drawn to the same scale.

(a) Write down an estimate for the real height, in metres, of the man.

Any answer between 1·5 and 2m is correct.

1·8 metres

(1)

(b) Find an estimate for the real height, in metres, of the tree.

The tree is 5 to 6 times taller than the man.

5 × 1·8 = 9 metres

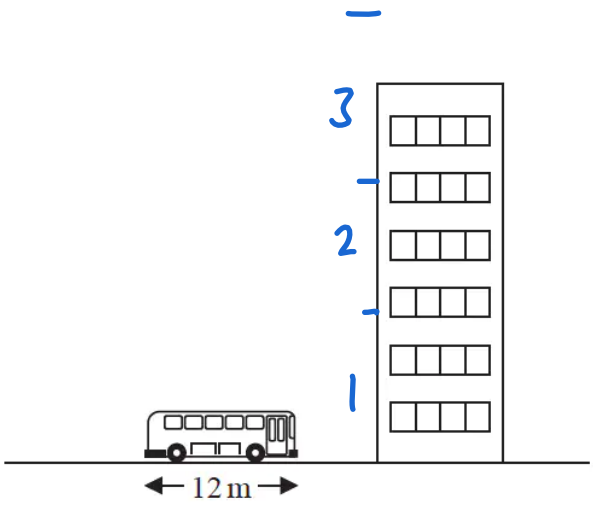
(2)

Any answer between 7·5 and 12m is correct.

(Total for Question 13 is 3 marks)

[Edexcel, GCSE, Summer 2017, Paper 1F, Q13]

2



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.

Answer in range of 27 to 33m.

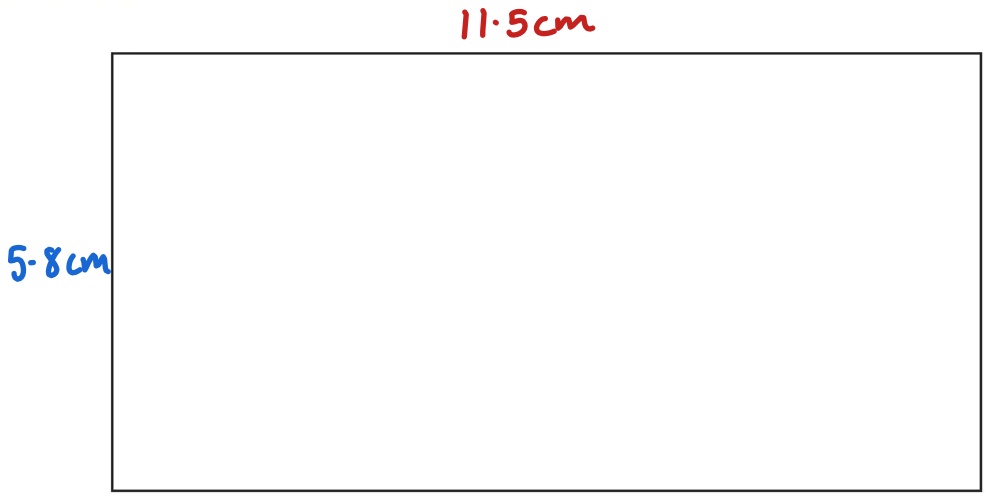
2.5 12 = 30 m

(Total for Question 8 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q8]

3

The diagram shows a scale drawing of a tennis court.



The scale of the drawing is 1 : 200

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

$P = 2 \times (11.5 + 5.8) = 2 \times 17.3 = 34.6\text{cm}$

$34.6 \times 200 = 6920\text{cm}$

$6920\text{cm} = 69.2\text{m}$

69·2 ..... metres

(Total for Question 12 is 5 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q18]

4

On a scale drawing, a building has length 12.4 cm and width 9.4 cm.
The real length of the building is 62 metres.

Work out, in metres, the real width of the building.

12.4cm = 62m
÷12.4 ↓ 1cm = 5m
x9.4 ↓ 9.4cm = 47m

	Drawing	Building
Width	9.4cm	47m
Length	12.4cm	62m

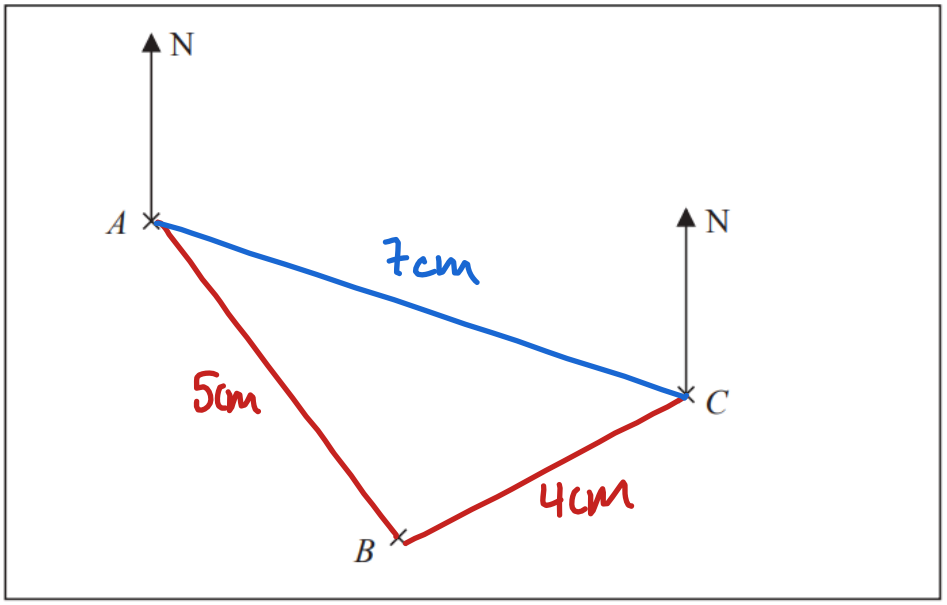
47 metres

(Total for Question 16 is 3 marks)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q16]

5

The accurately drawn map shows the positions of three points, A, B and C, in a field.



Scale: 1 cm represents 150 metres

1cm = 150m
x7 → 7cm = 1050m
x9 → 9cm = 1350m

Parveen walks in a straight line from A to B.
She then walks in a straight line from B to C.

Susan walks in a straight line from A to C.

Parveen walks more metres than Susan.

(a) How many more?

1350 − 1050 = 300

..... metres

(3)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q13]