7.6 Perimeter and Area: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Notebooks cost £5.55 each. Tom buys 8 and pays with £60.

How much change does Tom get?

Answer: £___

(2)

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2 A rectangle has an area of 99 square centimetres. Its length is 9 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



9 cm

99 square centimetres

(2)

3 Tickets cost £5.40 each. Kiran buys 6 and pays with £40.

How much change does Kiran get?

Answer: £___

(2)

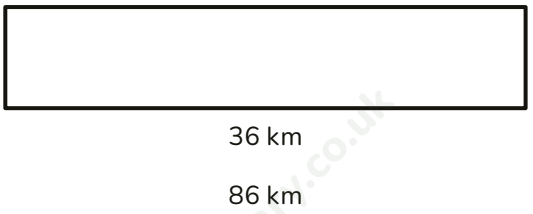
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4 A rectangle has a perimeter of 86 km. Its length is 36 km.

What is its width?

Answer: ___ km

Diagram NOT accurately drawn



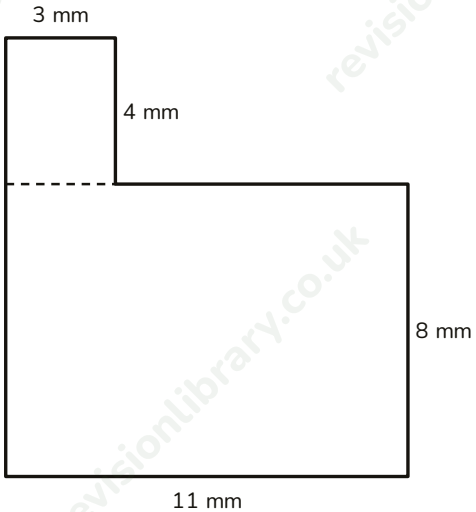
(1)

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5 An L-shape is made from two rectangles joined together. The first rectangle is 11 mm by 8 mm. The second is 3 mm by 4 mm.

What is the total area of the L-shape in square millimetres?

Answer: ___



(2)

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6 A square has sides of length 5 mm.

What is its area in square millimetres?

Answer: ___

Diagram NOT accurately drawn



5 mm

(1)

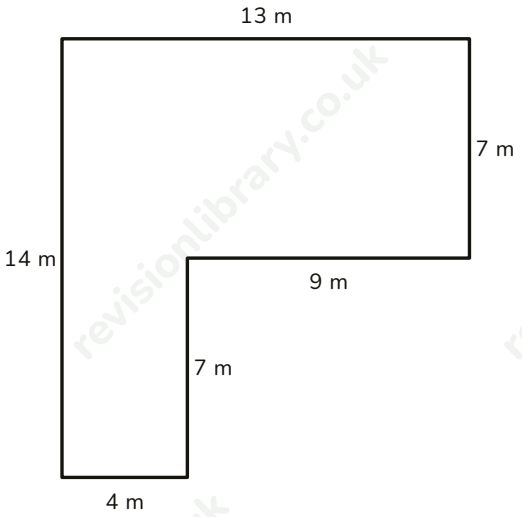
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7 An L-shaped floor has these sides in order around the shape: 13 m, 7 m, 9 m, 7 m, 4 m, 14 m.

What is the perimeter of the floor?

Answer: ___ m

Diagram NOT accurately drawn



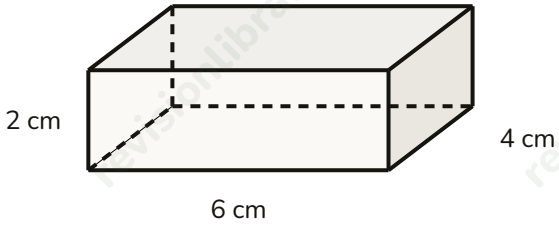
(2)

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8 A box is 6 cm long, 4 cm wide and 2 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___



(1)

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9 A rectangle is 22 mm long and 12 mm wide.

What is its area in square millimetres?

Answer: ___

(1)

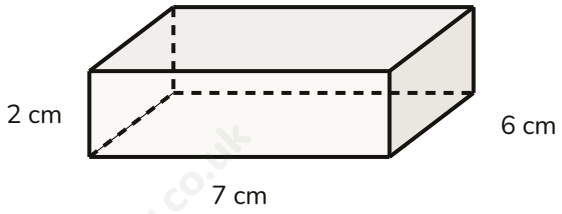
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10 A box is 7 cm long, 6 cm wide and 2 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

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11 Notebooks cost £8.01 each. Olu buys 3 and pays with £40.

How much change does Olu get?

Answer: £___

(2)

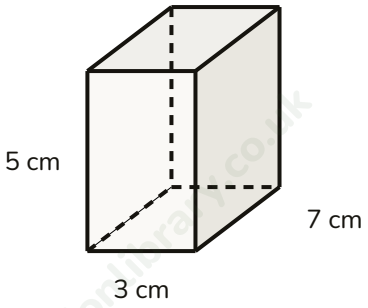
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12 A box is 3 cm long, 7 cm wide and 5 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

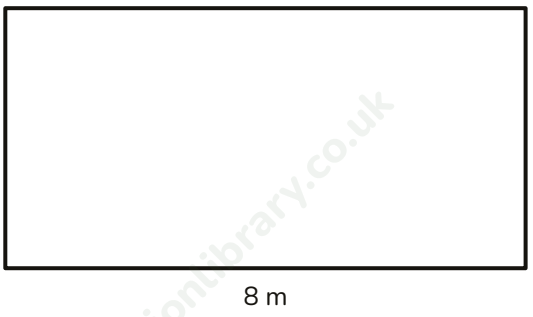
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13 A rectangle has a perimeter of 28 m. Its length is 8 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



Perimeter = 28 m

(1)

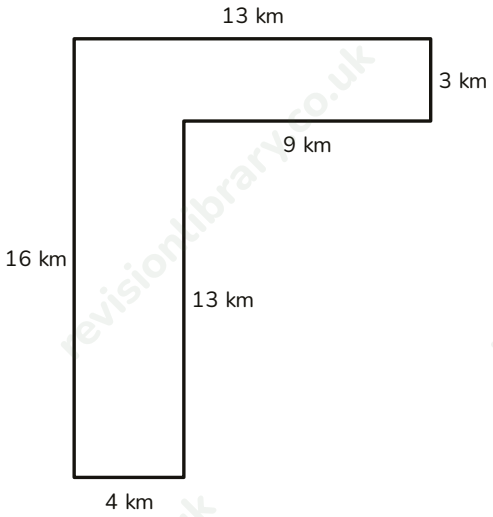
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14 An L-shaped floor has these sides in order around the shape: 13 km, 3 km, 9 km, 13 km, 4 km, 16 km.

What is the perimeter of the floor?

Answer: ___ km

Diagram NOT accurately drawn



(2)

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15 A jug holds 1.75 litres of juice. Dev pours it into glasses that each hold 250 ml.

How many glasses can be filled?

Answer: ___

(2)

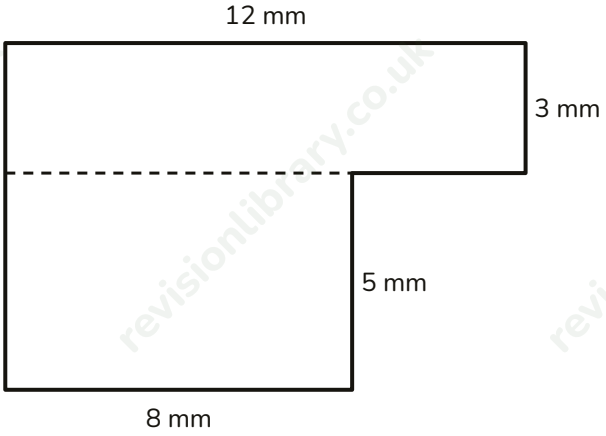
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16 An L-shape is made from two rectangles joined together. The first rectangle is 12 mm by 3 mm. The second is 8 mm by 5 mm.

What is the total area of the L-shape in square millimetres?

Answer: ___

Diagram NOT accurately drawn



(2)

17 Books cost £2.38 each. Kiran buys 12 and pays with £40.

How much change does Kiran get?

Answer: £___

(2)

18 The perimeter of a rectangle is 30 cm. One side is 8 cm. Work out the length of the other side.

(2)

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19 Books cost £5.91 each. Ravi buys 5 and pays with £40.

How much change does Ravi get?

Answer: £___

(2)

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20 A square has sides of length 29 m.

What is its area in square metres?

Answer: ___

Diagram NOT accurately drawn



(1)

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21 A rectangle measures 7 cm by 11 cm. A smaller rectangle 3 cm by 9 cm is cut out of one corner.

What is the area of the shape that is left, in square centimetres?

Answer: ___

(3)

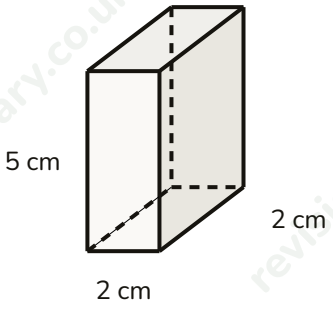
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22 A box is 2 cm long, 2 cm wide and 5 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

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23 Gift bags cost £1.36 each. Ella buys 10 and pays with £20.

How much change does Ella get?

Answer: £___

(2)

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24 A rectangle has an area of 510 square millimetres. Its length is 30 mm.

What is its width?

Answer: ___ mm

Diagram NOT accurately drawn



30 mm

Area = 510 mm²

(1)

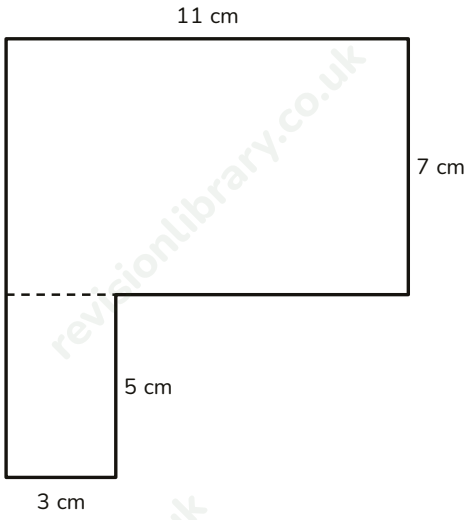
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25 An L-shape is made from two rectangles joined together. The first rectangle is 11 cm by 7 cm. The second is 3 cm by 5 cm.

What is the total area of the L-shape in square centimetres?

Answer: ___

Diagram NOT accurately drawn



(2)

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26 A rectangle is 13 cm long and 17 cm wide.

What is its area in square centimetres?

Answer: ___

(1)

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27 On a 1 cm grid, a shape has outer edge lengths 6, 2, 3, 1, 3 and 3 cm in order around the shape. Find the perimeter of the shape.

(2)

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Mark scheme · 7.6 Perimeter and Area: 1-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

5.55 x 8 = 44.40 seen	M1
£15.60 cao	A1

Answer: **£15.60**

Question 2

divides area by length	M1
11 cm cao	A1

Answer: **11 cm**

Question 3

5.40 x 6 = 32.40 seen	M1
£7.60 cao	A1

Answer: **£7.60**

Question 4

7 km cao	B1

Answer: **7 km**

Question 5

finds the area of each rectangle	M1
100 square millimetres cao	A1

Answer: **100 square millimetres**

Question 6

25 square millimetres cao	B1

Answer: **25 square millimetres**

Question 7

adds all six sides	M1
54 m cao	A1

Answer: **54 m**

Question 8

48 cao	B1

Answer: **48**

Question 9

264 square millimetres cao	B1

Answer: **264 square millimetres**

Question 10

volume formula seen	M1
84 cao	A1

Answer: **84**

Question 11

8.01 x 3 = 24.03 seen	M1
£15.97 cao	A1

Answer: **£15.97**

Question 12

volume formula seen	M1
105 cao	A1

Answer: **105**

Question 13

6 m cao	B1

Answer: **6 m**

Question 14

adds all six sides	M1
58 km cao	A1

Answer: **58 km**

Question 15

1.75 litres = 1,750 ml seen	M1
7 cao	A1

Answer: **7**

Question 16

finds the area of each rectangle	M1
76 square millimetres cao	A1

Answer: **76 square millimetres**

Question 17

2.38 x 12 = 28.56 seen	M1
£11.44 cao	A1

Answer: **£11.44**

Question 18

Method to halve 30 and subtract 8, or show 2x + 2*8 = 30 then solve for x	M1
7 cm cao	B1

Answer: **7 cm**

Question 19

5.91 x 5 = 29.55 seen	M1
£10.45 cao	A1

Answer: **£10.45**

Question 20

841 square metres cao	B1

Answer: **841 square metres**

Question 21

finds both areas	M1
subtracts	M1
50 square centimetres cao	A1

Answer: **50 square centimetres**

Question 22

volume formula seen	M1
20 cao	A1

Answer: **20**

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Question 23

1.36 x 10 = 13.60 seen	**M1**
£6.40 cao	**A1**

Answer: **£6.40**

Question 24

17 mm cao	**B1**

Answer: **17 mm**

Question 25

finds the area of each rectangle	**M1**
92 square centimetres cao	**A1**

Answer: **92 square centimetres**

Question 26

221 square centimetres cao	**B1**

Answer: **221 square centimetres**

Question 27

Correct method to add the given side lengths	**M1**
Perimeter 18 cm cao	**B1**

Answer: **18 cm**

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