7.6 Perimeter and Area: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangle has an area of 26 square centimetres. Its length is 13 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



13 cm

26 square centimetres

(2)

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2 A rectangle has a perimeter of 60 cm. Its length is 17 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



17 cm

60 cm

(2)

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3 Books cost £8.31 each. Tom buys 5 and pays with £60.

How much change does Tom get?

Answer: £___

(2)

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4 Gift bags cost £4.96 each. Poppy buys 3 and pays with £20.

How much change does Poppy get?

Answer: £___

(2)

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5 Dev buys a bag of potatoes weighing 4.2 kg and a bag of carrots weighing 766 g.

What is the total mass in kg?

Answer: ___ kg

(2)

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6 A ribbon is 2 m long. Nia cuts it into pieces that are each 50 cm long.

How many pieces does Nia cut?

Answer: ___

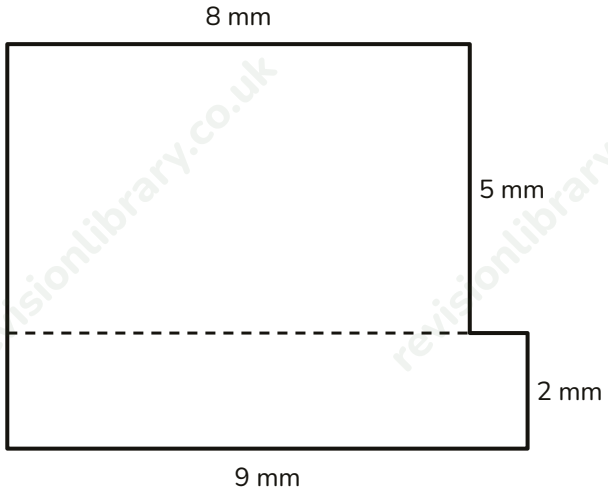
(2)

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7 An L-shape is made from two rectangles joined together. The first rectangle is 9 mm by 2 mm. The second is 8 mm by 5 mm.

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

Answer: ___



(3)

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8 A rectangle has an area of 450 square metres. Its length is 25 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



25 m

450 square metres

(2)

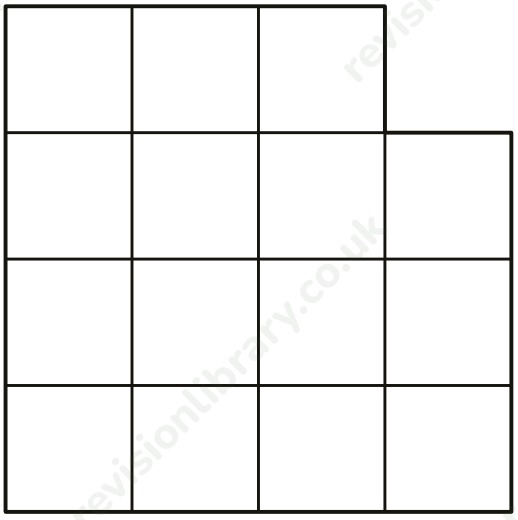
9 A rectangle is 9 cm long and 6 cm wide. Work out its area in square centimetres.

(1)

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10 On a 1 cm grid a 4 by 4 square has one corner square removed. What is the area of the remaining shape in square centimetres?

Diagram NOT accurately drawn

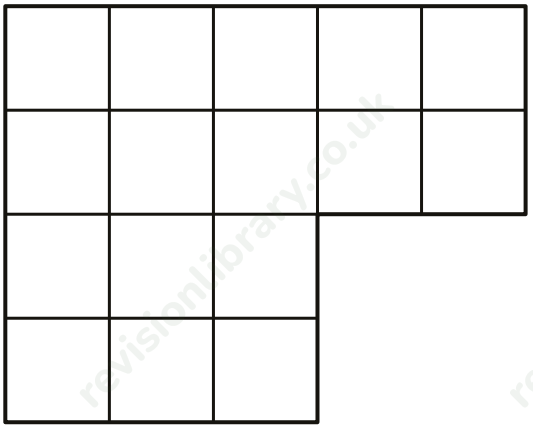


(2)

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11 Find the perimeter of the L-shaped figure on a 1 cm square grid. The shape is made from a 5 by 4 rectangle with a 2 by 2 square removed from one corner. Give your answer in centimetres.

Diagram NOT accurately drawn

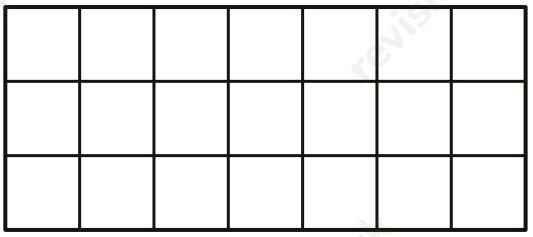


(2)

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12 A rectangle on a square grid measures 7 squares by 3 squares. What is its area in square centimetres if each small square is 1 cm by 1 cm?

Diagram NOT accurately drawn

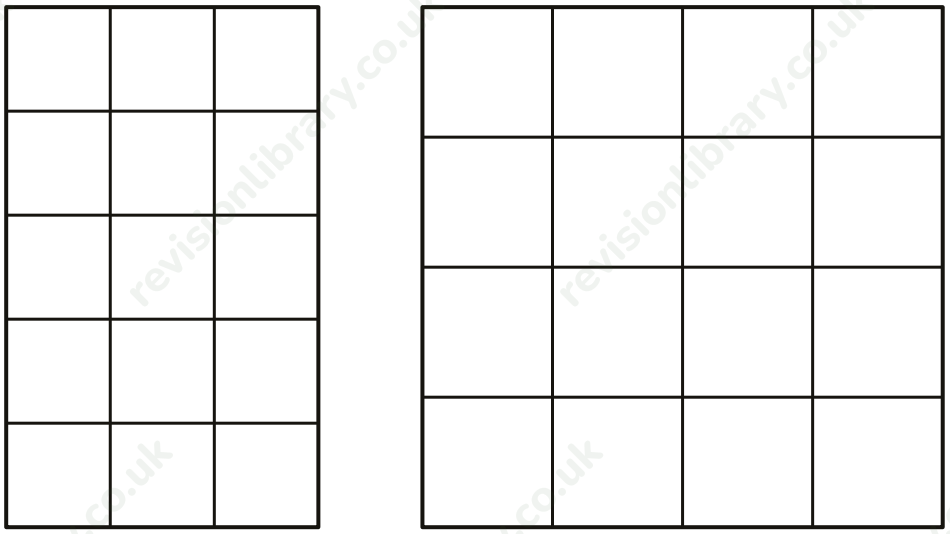


(1)

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13 A 3 by 5 rectangle and a 4 by 4 square both use 1 cm squares. Explain whether they could have the same area. Give a reason for your answer.

Diagram NOT accurately drawn



(2)

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Mark scheme · 7.6 Perimeter and Area: 30-minute Pack

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

Question 1

divides area by length	M1
2 cm cao	A1

Answer: **2 cm**

Question 2

60 - 34 = 26 seen	M1
13 cm cao	A1

Answer: **13 cm**

Question 3

8.31 x 5 = 41.55 seen	M1
£18.45 cao	A1

Answer: **£18.45**

Question 4

4.96 x 3 = 14.88 seen	M1
£5.12 cao	A1

Answer: **£5.12**

Question 5

766 g = 0.766 kg seen	M1
4.966 kg cao	A1

Answer: **4.966 kg**

Question 6

2 m = 200 cm seen	M1
4 cao	A1

Answer: **4**

Question 7

finds the area of each rectangle	M1
adds the two areas	M1
58 square millimetres cao	A1

Answer: **58 square millimetres**

Question 8

divides area by length	M1
18 m cao	A1

Answer: **18 m**

Question 9

54 cm² cao	B1

Answer: **54 cm²**

Question 10

Correct method 4x4 = 16 then subtract 1	M1
15 cm² cao	B1

Answer: **15 cm²**

Question 11

Correct method to follow outer edges or add side lengths of the L shape	M1
Perimeter 18 cm cao	B1

Answer: **18 cm**

Question 12

21 cm² cao	B1

Answer: **21 cm²**

Question 13

Correct statement about areas: 3x5 = 15 and 4x4 = 16	B1
Reason that areas are not the same because 15 is not equal to 16 cao	B1

Answer: **No. 3x5 = 15 cm² and 4x4 = 16 cm², so the areas are different.**

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