7.6 Perimeter and Area: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A rectangle measures 9 m by 7 m. A smaller rectangle 5 m by 2 m is cut out of one corner.

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

Answer: ___

(3)

---

2 Books cost £6.05 each. Ben buys 10 and pays with £80.

How much change does Ben get?

Answer: £___

(2)

---

3 Tickets cost £4.76 each. Reece buys 9.

How much does Reece pay?

Answer: £___

(2)

© Revision Library | revisionlibrary.co.uk

4 A rectangle has an area of 208 square metres. Its length is 26 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



(2)

5 A rectangle is 13 m long and 21 m wide.

What is its perimeter?

Answer: ___ m

(2)

© Revision Library | revisionlibrary.co.uk

6 Plants cost £8.08 each. Uma buys 10 and pays with £100.

How much change does Uma get?

Answer: £___

(2)

---

7 Tickets cost £1.55 each. Tom buys 10.

How much does Tom pay?

Answer: £___

(2)

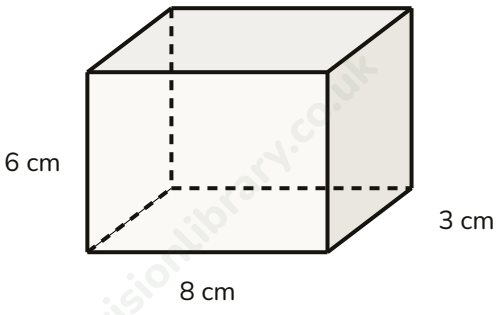
---

8 A box is 8 cm long, 3 cm wide and 6 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

© Revision Library | revisionlibrary.co.uk

9 A rectangle is 23 m long and 3 m wide.

What is its area in square metres?

Answer: ___

(1)

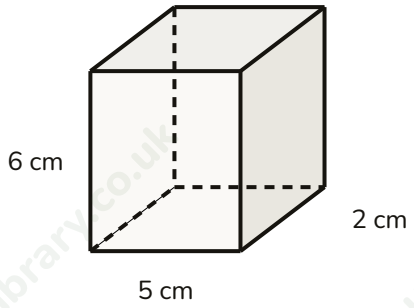
---

10 A box is 5 cm long, 2 cm wide and 6 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

---

11 A rectangle is 7 cm long and 8 cm wide.

What is its perimeter?

Answer: ___ cm

(2)

© Revision Library | revisionlibrary.co.uk

12 Poppy buys a bag of potatoes weighing 3.8 kg and a bag of carrots weighing 626 g.

What is the total mass in kg?

Answer: ___ kg

(2)

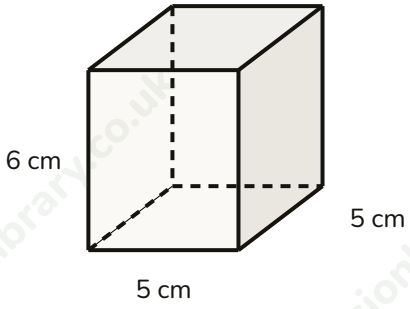
---

13 A box is 5 cm long, 5 cm wide and 6 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

---

14 A rectangle measures 15 cm by 6 cm. A smaller rectangle 11 cm by 3 cm is cut out of one corner.

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

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

15 Isla buys a bag of potatoes weighing 4.4 kg and a bag of carrots weighing 323 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

16 A rectangle measures 14 m by 5 m. A smaller rectangle 4 m by 2 m is cut out of one corner.

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

Answer: ___

(3)

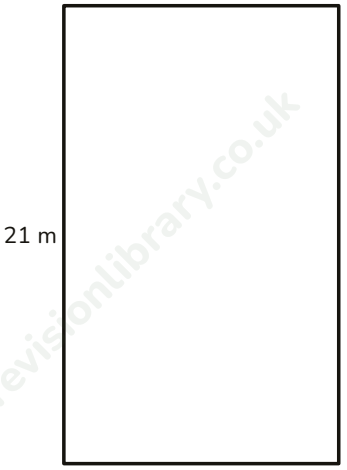
© Revision Library | revisionlibrary.co.uk

17 A rectangle has an area of 336 square metres. Its length is 21 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



(1)

© Revision Library | revisionlibrary.co.uk

18 A ribbon is 3 m long. Oscar cuts it into pieces that are each 50 cm long.

How many pieces does Oscar cut?

Answer: ___

(2)

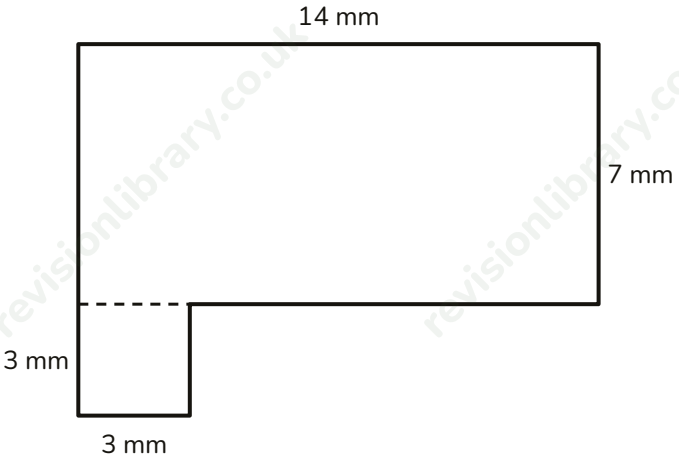
---

19 An L-shape is made from two rectangles joined together. The first rectangle is 14 mm by 7 mm. The second is 3 mm by 3 mm.

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

Answer: ___

Diagram NOT accurately drawn



(2)

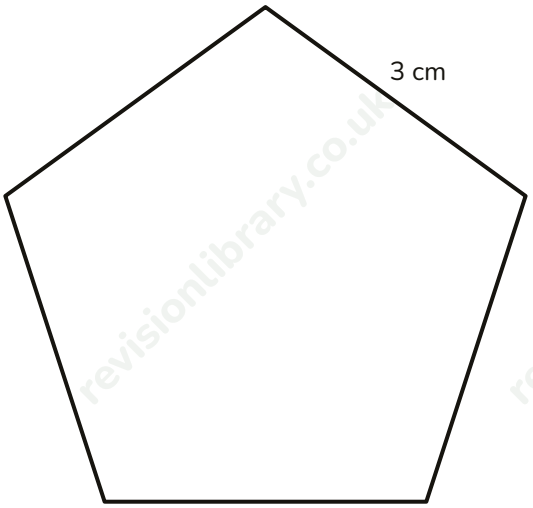
© Revision Library | revisionlibrary.co.uk

20 A regular pentagon has sides of length 3 cm.

What is its perimeter?

Answer: ___ cm

Diagram NOT accurately drawn



(2)

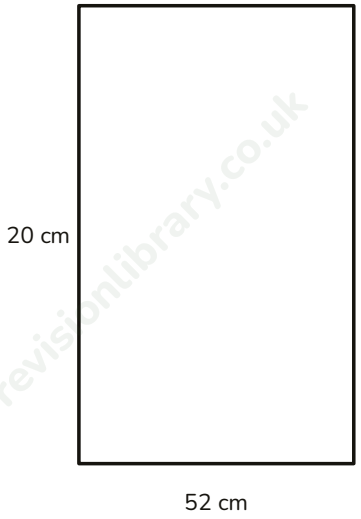
© Revision Library | revisionlibrary.co.uk

21 A rectangle has a perimeter of 52 cm. Its length is 20 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



(2)

22 A ribbon is 2 m long. Isla cuts it into pieces that are each 40 cm long.

How many pieces does Isla cut?

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

23 A rectangle has an area of 33 square metres. Its length is 3 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



(1)

© Revision Library | revisionlibrary.co.uk

24 A rectangle measures 14 mm by 7 mm. A smaller rectangle 12 mm by 4 mm is cut out of one corner.

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

Answer: ___

(3)

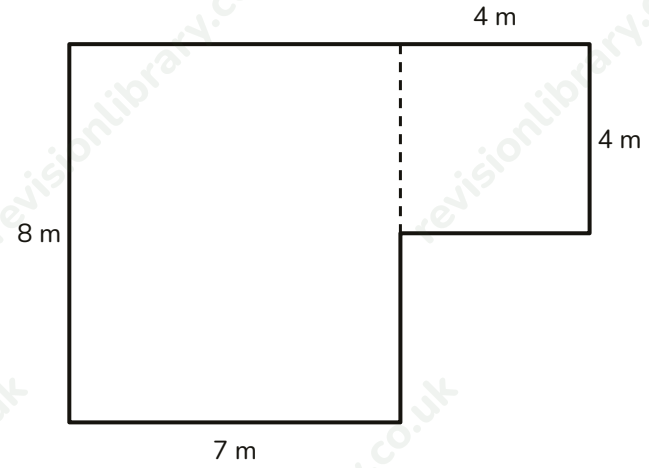
---

25 An L-shape is made from two rectangles joined together. The first rectangle is 4 m by 4 m. The second is 7 m by 8 m.

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

Answer: ___

Diagram NOT accurately drawn



(2)

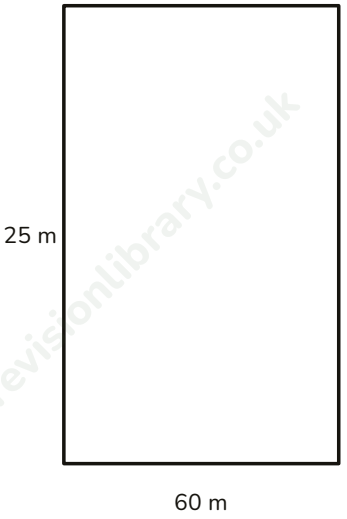
© Revision Library | revisionlibrary.co.uk

26 A rectangle has a perimeter of 60 m. Its length is 25 m.

What is its width?

Answer: ___ m

Diagram NOT accurately drawn



(1)

27 Tickets cost £4.93 each. Callum buys 7 and pays with £40.

How much change does Callum get?

Answer: £___

(2)

© Revision Library | revisionlibrary.co.uk

28 Books cost £5.96 each. Priya buys 10.

How much does Priya pay?

Answer: £___

(2)

© Revision Library | revisionlibrary.co.uk

29 Toys cost £7.01 each. Zara buys 4 and pays with £40.

How much change does Zara get?

Answer: £___

(2)

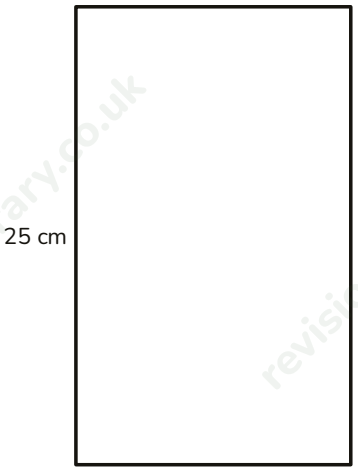
---

30 A rectangle has an area of 250 square centimetres. Its length is 25 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



(2)

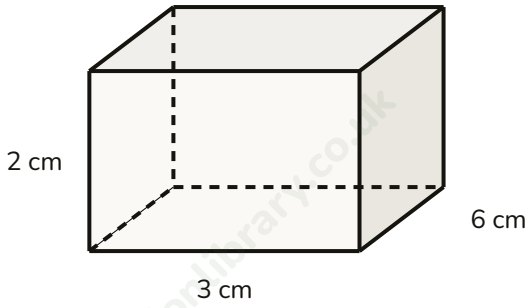
© Revision Library | revisionlibrary.co.uk

31 A box is 3 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)

© Revision Library | revisionlibrary.co.uk

32 A square has sides of length 10 mm.

What is its area in square millimetres?

Answer: ___

Diagram NOT accurately drawn



10 mm

(1)

33 A rectangle measures 13 cm by 5 cm. A smaller rectangle 2 cm by 3 cm is cut out of one corner.

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

Answer: ___

(3)

© Revision Library | revisionlibrary.co.uk

34 Toys cost £1.46 each. Victor buys 6 and pays with £20.

How much change does Victor get?

Answer: £___

(2)

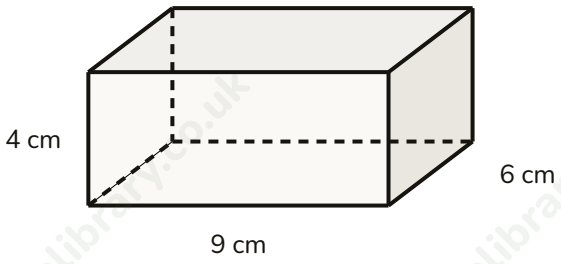
---

35 A box is 9 cm long, 6 cm wide and 4 cm high. It is filled with 1 cm cubes.

How many cubes are needed to fill the box?

Answer: ___

Diagram NOT accurately drawn



(2)

---

36 A jug holds 4.25 litres of juice. Tom pours it into glasses that each hold 50 ml.

How many glasses can be filled?

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

37 A rectangle is 13 mm long and 18 mm wide.

What is its area in square millimetres?

Answer: ___

(1)

---

38 A rectangle has a perimeter of 64 km. Its length is 20 km.

What is its width?

Answer: ___ km

Diagram NOT accurately drawn



20 km

64 km

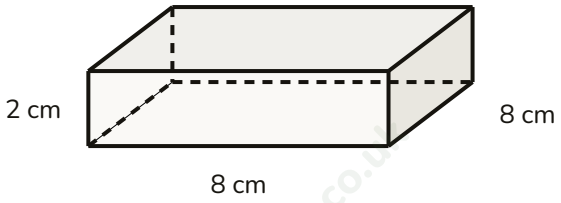
(2)

© Revision Library | revisionlibrary.co.uk

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

How many cubes are needed to fill the box?

Answer: ___



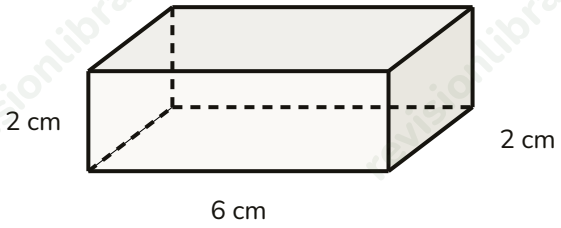
(1)

---

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

How many cubes are needed to fill the box?

Answer: ___



(2)

© Revision Library | revisionlibrary.co.uk

41 A square has sides of length 8 m.

What is its area in square metres?

Answer: ___

Diagram NOT accurately drawn



(1)

42 Notebooks cost £3.89 each. Hassan buys 4 and pays with £20.

How much change does Hassan get?

Answer: £___

(2)

© Revision Library | revisionlibrary.co.uk

43 Gift bags cost £6.39 each. George buys 9.

How much does George pay?

Answer: £___

(2)

---

44 A rectangle has an area of 110 square millimetres. Its length is 10 mm.

What is its width?

Answer: ___ mm

Diagram NOT accurately drawn



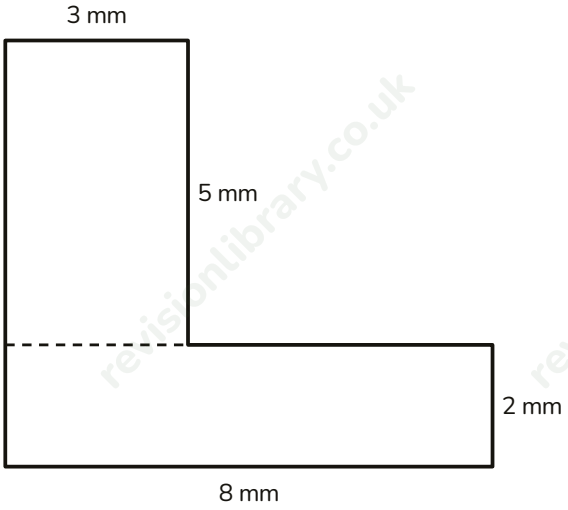
(2)

© Revision Library | revisionlibrary.co.uk

45 An L-shape is made from two rectangles joined together. The first rectangle is 8 mm by 2 mm. The second is 3 mm by 5 mm.

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

Answer: ___



(2)

---

46 Toys cost £5.43 each. Callum buys 7.

How much does Callum pay?

Answer: £___

(2)

© Revision Library | revisionlibrary.co.uk

47 A rectangle is 11 cm long and 18 cm wide.

What is its area in square centimetres?

Answer: ___

(1)

---

48 A rectangle has an area of 56 square millimetres. Its length is 7 mm.

What is its width?

Answer: ___ mm

Diagram NOT accurately drawn



7 mm

56 square millimetres

(2)

© Revision Library | revisionlibrary.co.uk

49 Plants cost £3.90 each. Quinn buys 7.

How much does Quinn pay?

Answer: £___

(2)

---

50 A rectangle is 17 cm long and 10 cm wide.

What is its perimeter?

Answer: ___ cm

(2)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 7.6 Perimeter and Area: 2-hour Pack

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

Question 1

finds both areas — M1
subtracts — M1
53 square metres cao — A1
Answer: **53 square metres**

Question 2

6.05 x 10 = 60.50 seen — M1
£19.50 cao — A1
Answer: **£19.50**

Question 3

4.76 x 9 method seen — M1
£42.84 cao — A1
Answer: **£42.84**

Question 4

divides area by length — M1
8 m cao — A1
Answer: **8 m**

Question 5

adds all four sides or doubles l + w — M1
68 m cao — A1
Answer: **68 m**

Question 6

8.08 x 10 = 80.80 seen — M1
£19.20 cao — A1
Answer: **£19.20**

Question 7

1.55 x 10 method seen — M1
£15.50 cao — A1
Answer: **£15.50**

Question 8

volume formula seen — M1
144 cao — A1
Answer: **144**

Question 9

69 square metres cao — B1
Answer: **69 square metres**

Question 10

volume formula seen — M1
60 cao — A1
Answer: **60**

Question 11

adds all four sides or doubles l + w — M1
30 cm cao — A1
Answer: **30 cm**

Question 12

626 g = 0.626 kg seen — M1
4.426 kg cao — A1
Answer: **4.426 kg**

Question 13

volume formula seen — M1
150 cao — A1
Answer: **150**

Question 14

finds both areas — M1
57 square centimetres cao — A1
Answer: **57 square centimetres**

Question 15

323 g = 0.323 kg seen — M1
4.723 kg cao — A1
Answer: **4.723 kg**

Question 16

finds both areas — M1
subtracts — M1
62 square metres cao — A1
Answer: **62 square metres**

Question 17

16 m cao — B1
Answer: **16 m**

Question 18

3 m = 300 cm seen — M1
6 cao — A1
Answer: **6**

Question 19

finds the area of each rectangle — M1
107 square millimetres cao — A1
Answer: **107 square millimetres**

Question 20

5 x 3 — M1
15 cm cao — A1
Answer: **15 cm**

Question 21

52 - 40 = 12 seen — M1
6 cm cao — A1
Answer: **6 cm**

© Revision Library | revisionlibrary.co.uk

Question 22

2 m = 200 cm seen	M1
5 cao	A1

Answer: **5**

Question 23

11 m cao	B1

Answer: **11 m**

Question 24

finds both areas	M1
subtracts	M1
50 square millimetres cao	A1

Answer: **50 square millimetres**

Question 25

finds the area of each rectangle	M1
72 square metres cao	A1

Answer: **72 square metres**

Question 26

5 m cao	B1

Answer: **5 m**

Question 27

4.93 x 7 = 34.51 seen	M1
£5.49 cao	A1

Answer: **£5.49**

Question 28

5.96 x 10 method seen	M1
£59.60 cao	A1

Answer: **£59.60**

Question 29

7.01 x 4 = 28.04 seen	M1
£11.96 cao	A1

Answer: **£11.96**

Question 30

divides area by length	M1
10 cm cao	A1

Answer: **10 cm**

Question 31

volume formula seen	M1
36 cao	A1

Answer: **36**

Question 32

100 square millimetres cao	B1

Answer: **100 square millimetres**

Question 33

finds both areas	M1
subtracts	M1
59 square centimetres cao	A1

Answer: **59 square centimetres**

Question 34

1.46 x 6 = 8.76 seen	M1
£11.24 cao	A1

Answer: **£11.24**

Question 35

volume formula seen	M1
216 cao	A1

Answer: **216**

Question 36

4.25 litres = 4,250 ml seen	M1
85 cao	A1

Answer: **85**

Question 37

234 square millimetres cao	B1

Answer: **234 square millimetres**

Question 38

64 - 40 = 24 seen	M1
12 km cao	A1

Answer: **12 km**

Question 39

128 cao	B1

Answer: **128**

Question 40

volume formula seen	M1
24 cao	A1

Answer: **24**

Question 41

64 square metres cao	B1

Answer: **64 square metres**

Question 42

3.89 x 4 = 15.56 seen	M1
£4.44 cao	A1

Answer: **£4.44**

Question 43

6.39 x 9 method seen	M1
£57.51 cao	A1

Answer: **£57.51**

Question 44

divides area by length	M1
11 mm cao	A1

Answer: **11 mm**

Question 45

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

Answer: **31 square millimetres**

© Revision Library | revisionlibrary.co.uk

Question 46

5.43 x 7 method seen	M1
£38.01 cao	A1

Answer: **£38.01**

Question 47

198 square centimetres cao	B1

Answer: **198 square centimetres**

Question 48

divides area by length	M1
8 mm cao	A1

Answer: **8 mm**

Question 49

3.90 x 7 method seen	M1
£27.30 cao	A1

Answer: **£27.30**

Question 50

adds all four sides or doubles l + w	M1
54 cm cao	A1

Answer: **54 cm**

© Revision Library | revisionlibrary.co.uk