7.10 Measurement: Units, Perimeter, Area and Volume: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A regular dodecagon has sides of length 13 m.

What is its perimeter?

Answer: ___ m

(1)

---

2 Ivan buys a bag of potatoes weighing 1.7 kg and a bag of carrots weighing 532 g.

What is the total mass in kg?

Answer: ___ kg

(2)

---

3 Zara has a 3 m roll of wire. Zara uses 248 cm of it.

How many centimetres of wire are left?

Answer: ___ cm

(2)

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4 3 identical circles are drawn in a straight row, touching each other. Each circle has a radius of 15 cm.

How long is the whole row?

Answer: ___ cm

(2)

---

5 A rectangle has an area of 56 square centimetres. Its length is 8 cm.

What is its width?

Answer: ___ cm

Diagram NOT accurately drawn



8 cm

56 square centimetres

(2)

---

6 A bottle holds 1,250 ml of squash. Poppy fills glasses that each hold 250 ml.

How many glasses can be filled?

Answer: ___

(1)

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7 Convert 59,500 m to km.

Answer: ___ km

(1)

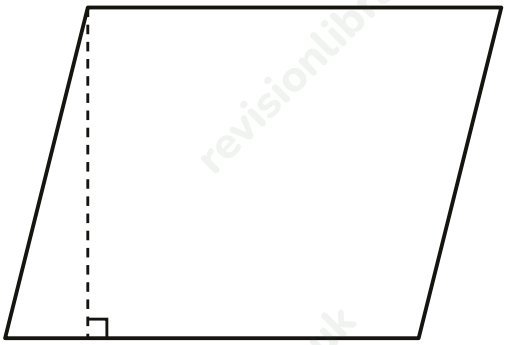
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8 A rectangle and a parallelogram have the same base 10 cm and the same area 80 cm². Explain how you could find the height of the parallelogram and give the height.

Diagram NOT accurately drawn



80 cm²



(3)

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9 Use 1 pint = 570 ml.

A jug holds 2 pints of water. How much is that in ml?

Answer: ___ ml

(2)

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10 A garden path is 7.5 m long and 80 cm wide. Work out its area in square metres.

(2)

---

11 Write 627p in pounds.

Answer: £___

(1)

---

12 A rectangle is 4 cm long and 14 cm wide.

What is its perimeter?

Answer: ___ cm

(1)

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13 A scale in ml has big marks every 50 ml, with 5 equal small divisions between each big mark. The first big mark is 100. The pointer is 4 small divisions after the second big mark.

What is the reading?

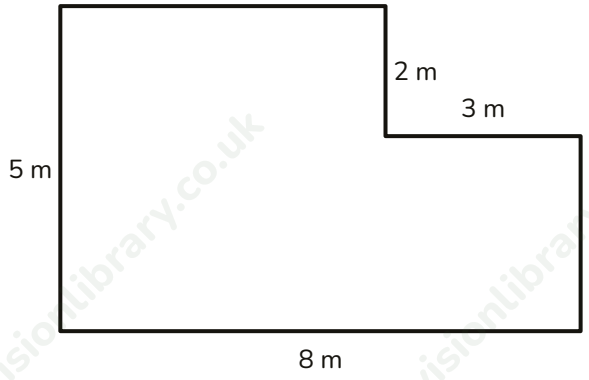
Answer: ___ ml

(2)

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14 Find the perimeter of an L-shaped garden made from two rectangles. The larger rectangle is 8 m by 5 m. A smaller rectangle (cut from one corner) is 3 m by 2 m as shown: what is the perimeter of the L-shape in metres?

Diagram NOT accurately drawn



(2)

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Mark scheme · 7.10 Measurement: Units, Perimeter, Area and Volume: 30-minute Pack

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

Question 1

156 m cao	B1

Answer: **156 m**

Question 2

532 g = 0.532 kg seen	M1
2.232 kg cao	A1

Answer: **2.232 kg**

Question 3

3 m = 300 cm seen	M1
52 cm cao	A1

Answer: **52 cm**

Question 4

diameter 30 seen	M1
90 cm cao	A1

Answer: **90 cm**

Question 5

divides area by length	M1
7 cm cao	A1

Answer: **7 cm**

Question 6

5 cao	B1

Answer: **5**

Question 7

59.5 km cao	B1

Answer: **59.5 km**

Question 8

state formula area = base x height for parallelogram or area = base x height for rectangle	M1
rearrange to height = area / base and substitute values	M1
8 cm cao	B1

Answer: **8 cm**

Question 9

multiplies by the conversion	M1
1,140 ml cao	A1

Answer: **1,140 ml**

Question 10

convert 80 cm to 0.8 m or equivalent and set up 7.5 x 0.8	M1
6.0 cao	B1

Answer: **6.0**

Question 11

£6.27 cao	B1

Answer: **£6.27**

Question 12

36 cm cao	B1

Answer: **36 cm**

Question 13

size of a small division found	M1
190 ml cao	A1

Answer: **190 ml**

Question 14

identify the outer outline sides: lengths 8, 5, (8-3)=5, (5-2)=3, 3, 2 or equivalent	M1
26 cao	B1

Answer: **26**

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