Test - Metric and imperial units, perimeter, area and volume

Year: Year 5 · Duration: 45 minutes · /20

Name:	Date:	**Mark: /20**

Question	1	2	3	4	5	Total
marks	4	4	4	3	5	**20**
Mark						

Show your working.

Question 1 (4 marks)

Question 1 – Converting units

Change: (a) 4.2 km to metres (b) 650 cm to metres (c) 3,500 g to kilograms (d) 0.8 litres to millilitres.

Question 2 (4 marks)

Question 2 – Perimeter and area

A rectangular garden is 14 m long and 9 m wide.

(a) Find the perimeter of the garden. (2 marks)

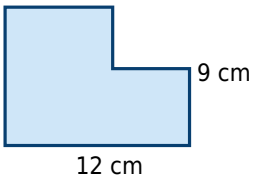
(b) Find the area of the garden. (1 mark)

(c) Grass seed costs £2 for each 10 m². About how much does the seed cost for the whole garden? (1 mark)

Question 3 (4 marks)

Question 3 – A composite shape

The L-shape is made from a 12 cm by 9 cm rectangle with a 5 cm by 4 cm rectangle cut from one corner.



(a) Find the area of the big rectangle. (1 mark)

(b) Find the area of the corner that is cut out. (1 mark)

(c) Find the area of the L-shape. (1 mark)

(d) Find its perimeter. (1 mark)

Question 4 (3 marks)

Question 4 – Volume and imperial units

(a) A cuboid is made of 1 cm cubes: 5 long, 3 wide and 2 high. Find its volume. (1 mark)

(b) About how many centimetres is 4 inches? (1 mark)

(c) About how many miles is 24 km? (1 mark)

Question 5 (5 marks)

Question 5 – The new classroom

A new classroom floor is a rectangle 9 m long and 7 m wide. Carpet tiles cost £14 per square metre.

(a) Find the area of the floor. (1 mark)

(b) Find the cost of carpeting the whole floor. (2 marks)

(c) A strip of tape goes along all four edges. How many metres of tape are needed? (1 mark)

(d) The tape is sold in rolls of 10 m. How many rolls must be bought? (1 mark)