NAME

Non-calculator

1 A cuboid is made by joining together some centimetre cubes as shown below.



a Draw the cuboid on isometric paper.

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(1 mark)

b One of the drawings below represents a **plan view** of the cuboid.

Circle the correct drawing.



(1 mark)

Core/Depth End of Unit 2 Test



2 Write <, > or = for each pair of quantities.

2)

а	1 km 30 m	1.3 km	
			(1 mark)
b	3.2 m	3200 mm	(1 mark)
			(T Hark

3 Sketch a net for a square based pyramid.

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(2 marks)

4 A cube has a side of length 4 cm.

Calculate the surface area of the cube.

.....cm²

(2 marks)

5 The diagram shows a piece of card in the shape of a rectangle with length 12 cm and width 10 cm.

A triangle of perpendicular height 5 cm is cut from the card.

2

Maths Progress



Enzo calculates the shaded area like this:

shaded area = area of rectangle + area of two triangles

$$= 10 \times 7 + \frac{1}{2} \times 5 \times 5 + \frac{1}{2} \times 5 \times 5$$
$$= 70 + 12.5 + 12.5$$
$$= 95 \text{ cm}^{2}$$

Show a different method to calculate the same shaded area.

(2 marks)

6 The front elevation and plan view of a solid are drawn accurately on a centimetre grid.

	I	ron	t							
								Plan		

The solid has been partly drawn on isometric paper.

2

Complete this drawing of the solid.



(2 marks)

7 Here is a solid L-shaped prism.

2

Maths Progress



a Calculate the volume of this solid.

.....m³

(3 marks)

b Calculate the total surface area of this solid.

..... m²

(4 marks)





Calculator

8 1 kg \approx 2.2 lbs

Simon weighs 165 lbs.

Estimate Simon's weight in kilograms.

2)

.....kg

(1 mark)

9 The diagram below shows triangles A and B joined together to make a parallelogram.



a Calculate the area of triangle A.

.....cm²

(2 marks)

b Show that the area of A is equal to the area of B.

(1 mark)

10 Calculate the volume of a cube with side length 7 cm.

..... cm³

(1 mark)

11 Calculate the area of the trapezium.

2

Maths Progress



.....cm²

(2 marks)

12 A cube has a total surface area of 57.66 cm².

a Find the area of one face of the cube.

.....cm² (1 mark)

b Find the length of one edge of the cube.

..... cm

(1 mark)



13 Calculate the surface area of a cube of side length 0.8 m.

.....m²

(2 marks)

Overall mark /30