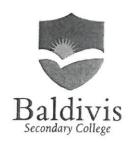
Year 11 Essentials 2019 Test 4

Perimeter, Area, Mass, Volume and Capacity



Resources allowed: Calculator and 1 x A4 page one side

Show all working out for full marks

Total:

/45

Time: 45 mins

1. [6 marks]

Convert the following

c)
$$3.4cm^2 = 340 mm^2$$

e)
$$634cm^3 = 634$$
 ml

2. [2 Marks]

If you have a 2.5m piece of wood, and you needed 6 pieces cut, estimate how long should each piece be? 240=6 = 40cm

(nearest 10cm)

[3 marks]

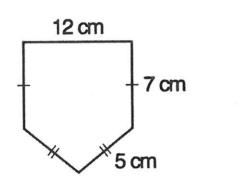
If a room is 7.2 metres long, and 5.9 meters wide, estimate how big is the room is to the nearest square meter? (hint- draw a diagram and don't give exact answer)

7×6 = 12m²

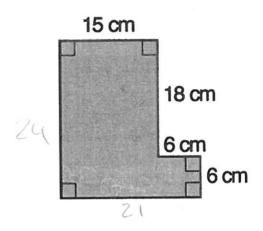
4. [2 marks]

Find the perimeter of the following shapes

a



b



5. [8 marks]

Use the following table to convert these imperial units to metric

IMPERIAL	2.54cm 30.4cm	
1 inch 1 foot		
1 mile	1.609km	

a) 40 feet to meters

$$40 \times 30.4 = 100 = 12.06 \text{ m}$$

b) 30 inches to centimetres

$$30 \times 2.54 = 76.7 \text{ cm}$$

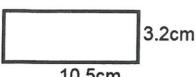
c) 65 metres to yards

d) 60 miles to Kilometres

6. [7 marks]

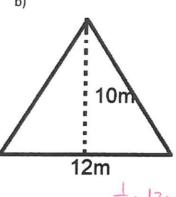
Find the Area of the following

a)



10.5cm

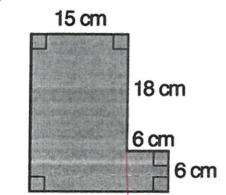
b)



1×12×10 /

= 60 m² /

c)



6x6 + 15x24

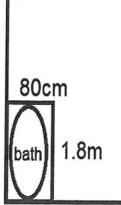
7. [5 marks]

Jack is tiling his bathroom floor with 12cm by 12 cm tiles.

a) Find the area of floor that needs to be tiled

2.4 × 3.6 - 0.8 × 1.8 / = 7.2 2

2.4m



3.6m

b) Find the area of each tile

12×12 = 144 cm = 0.0144m2

c) How many tiles will Jack need to tile the bathroom?

7.2 = 6.0144 = 500 tiles

8. [4 marks]	8.	[4	ma	rks
--------------	----	----	----	-----

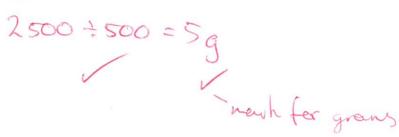
25L of water is poured into a rectangular fish tank, which is 50cm long, 20cm wide and 20cm high. Will it overflow?

50 x 20 x 20 = 20,000 cm³ = 20 L

It will not over flow

9. [2 marks]

A pack of 500 sheets of paper has a mass of 2.5kg. find the mass of one sheet of paper, giving your answer in the most appropriate unit.



10. [6 marks]

A farmer is building a fence around his horse paddock. The paddock has an area of 2 hectares.

a) If the length of the paddock is 125m, what is the width?





b) What length of fencing will be required to fence the entire horse paddock?

125+125+160+160 / = 570m/

c) If the fencing costs \$6/m, how much will it cost to fence the paddock?

570 86 \$420