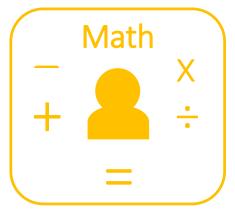




TUTORS

Preparation for

High School Mathematics Measurement II



Instructions and Tips:

- √ You have 60 minutes to complete this worksheet
- √ This worksheet consists of 5 guestions
- ✓ Write answers in the spaces provided
- ✓ All working must be clearly shown

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Student Name:	
Student ID:	
Date://	

Total Score:

Highest Score:

Tutor's Comments:

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Use $\pi = 3.14$

(a) Consider a rectangular room with a length of 20 m and a width of 10 m. Calculate the area of carpet that needs to be purchased to carpet the room.

(2 marks)

(b) Calculate the radius of a sphere that has a volume of 1000 m³.



(2 marks)

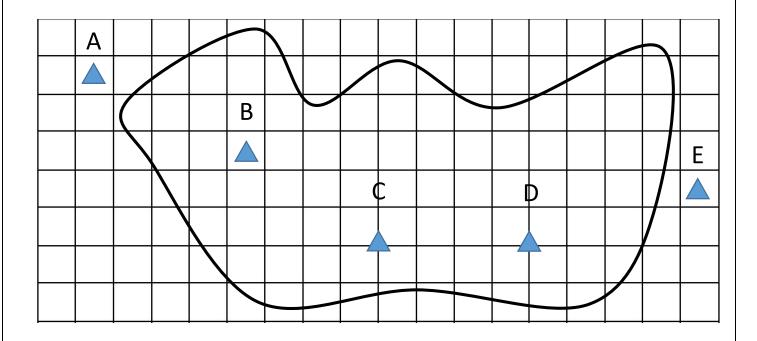
(c) Calculate the surface area of a sphere that has a volume of 1000 m^3 .

(2 marks)

(d) Calculate the volume of a pyramid that has a base area of 20 m^2 and a height of 5 m.

Consider the island below. The map is drawn on a grid of 1 cm squares. A, B, C, D and E are five high producing oil facilities.

The scale of the map is 1:2500



(a) Determine, in centimetres, the distance from C to D on the map.

(1 mark)

(b) Estimate, by counting, the area in square centimetres of the island.

(c) Use the scale to Calculate the ACTUAL distance between C and D in kilometres on the map.

(2 marks)

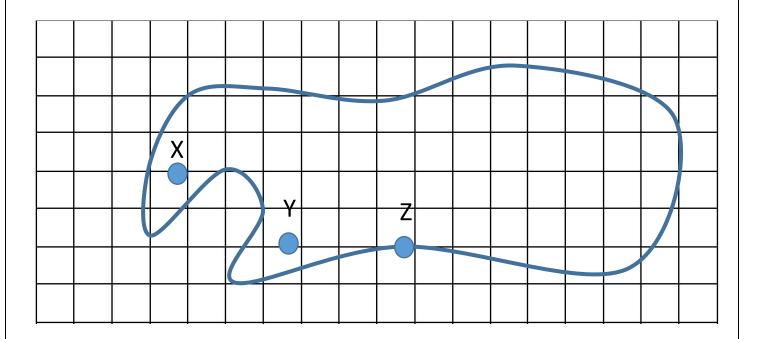
(d) Calculate, the ACTUAL area, in square metres, of the island.

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(3 marks)

Consider the island below. The map is drawn on a grid of 1 cm squares. X, Y and Z are three all-inclusive tourist resorts.

The scale of the map is 1:1500



(a) Determine, in centimetres, the distance from Y to Z on the map.

(1 mark)

(b) Estimate, by counting, the area, in square centimetres, of the island.

(c) Use the scale to calculate the ACTUAL distance in kilometres between Y and Z on the map.

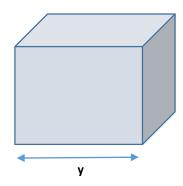
(3 marks)

(d) Calculate, the ACTUAL area in square metres of the island.



(3 marks)

Consider the cube below. The cube has a volume of 100 m³. (Diagram not drawn to scale)



(a) Calculate the length of one side of the cube.

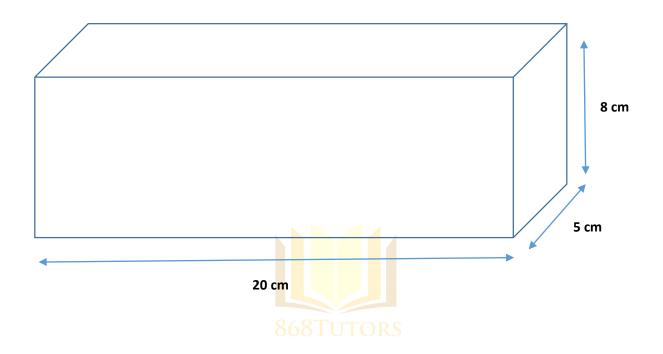


(2 marks)

(b) Calculate the surface area of the cube.

Consider the dimensions of the cuboid shown:

(Diagram not drawn to scale)



(a) Calculate the volume of the cuboid shown.

(2 marks)

(b) Calculate the surface area of the cuboid shown.



END OF WORKSHEET



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