Volume of Prisms Past Paper Questions

Questions

Q1.

Here is a cuboid.



The following sentences are about cuboids.

Complete each sentence by writing the correct number in the gap.

- (a) (i) A cuboid has faces.
- (ii) A cuboid has edges.
- (iii) A cuboid has vertices.

Here is a different cuboid.



Diagram NOT accurately drawn

(b) Work out the volume of the cuboid.

(2)

(Total for Question is 5 marks)

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(3)









Here is a prism.



Work out the volume of the prism.

.....cm³

(Total for question = 4 marks)



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Q8.



The diagram shows the area of each of three faces of a cuboid.



Diagram NOT accurately drawn

The length of each edge of the cuboid is a whole number of centimetres.

Work out the volume of the cuboid.

(Total for question = 4 marks)

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Q9.

The diagram shows a cube and a cuboid.



The total surface area of the cube is equal to the total surface area of the cuboid.

Janet says,

"The volume of the cube is equal to the volume of the cuboid."

Is Janet correct? You must show how you get your answer.

(Total for question = 5 marks)

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The diagram shows a prism.



All measurements are in centimetres. All corners are right angles.

Find an expression, in terms of x, for the volume, in cm³, of the prism.

You must show your working.

Give your answer in its simplest form.

.....

(Total for question = 4 marks)

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Q12.