

Calculator Questions

Geometry Toolkit

Rotational Symmetry / Lines of Symmetry / 2D Shapes / 3D Shapes / Planes of Symmetry / Converting between Units / Squared & Cubic Units

Easy (3 questions)	/4
Medium (3 questions)	/8
Hard (3 questions)	/6
Total Marks	/18

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Easy Questions

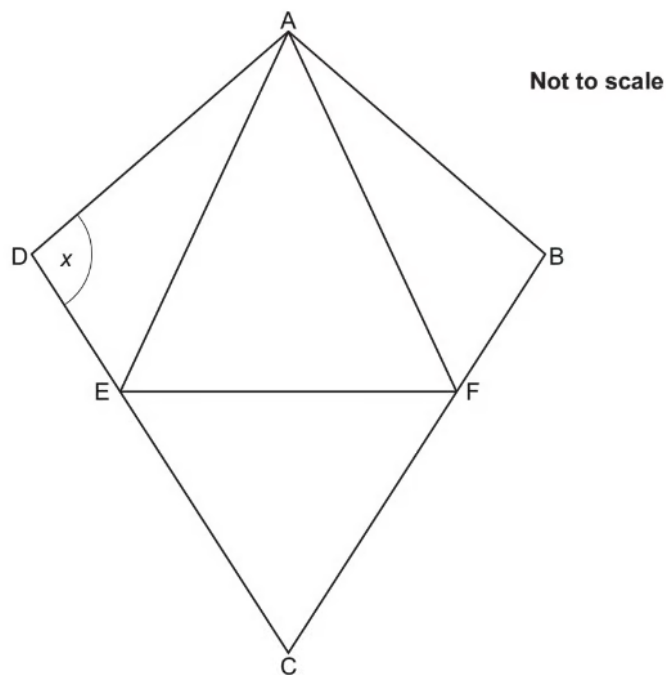
- 1 Circle the solid that has 7 vertices.

hexagonal prism	hexagon-based pyramid	pentagonal prism	pentagon-based pyramid
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(1 mark)

- 2 The diagram shows a kite, ABCD.

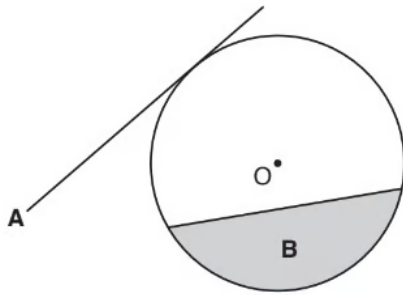
AFE and CEF are equilateral triangles.



Write down a mathematical name for quadrilateral AFCE.

(1 mark)

3 The diagram shows a circle, centre O.



Write down the mathematical name of

i) line **A**,

[1]

ii) shaded region **B**.

[1]

(2 marks)

Medium Questions

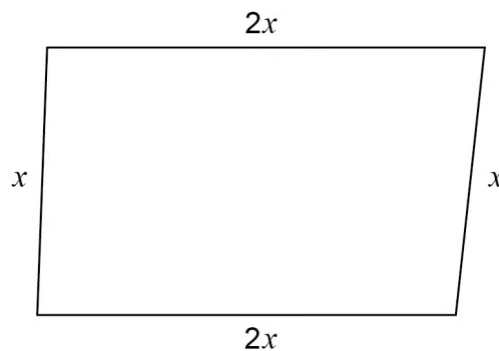
- 1 Change 90 km/h to m/s.

..... m/s

(2 marks)

- 2 Here is a **sketch** of a quadrilateral.

All lengths are in centimetres.



Not drawn
accurately

Tick **one** box for each statement.

	True	May be true	Not true
The quadrilateral is a rectangle			
The quadrilateral is a parallelogram			
The quadrilateral is a rhombus			
The quadrilateral is a kite			

(3 marks)

3 Change a speed of 50 metres per second to a speed in kilometres per hour.

..... kilometres per hour

(3 marks)

Hard Questions

- 1 The lake behind a dam has an area of 55 hectares.

When the gates in the dam are open, water flows out at a rate of 75 000 litres per second.

- i) Show that 90 million litres of water flows out in 20 minutes.

[1]

- ii) Beneath the surface, the lake has vertical sides.

Calculate the drop in the water level of the lake when the gates are open for 20 minutes. Give your answer in centimetres.

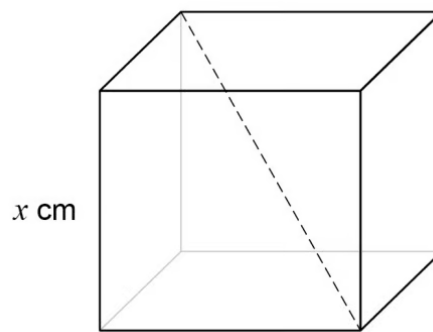
[1 hectare = 10^4 m^2 , 1000 litres = 1 m^3]

..... cm [3]

(4 marks)

- 2 Here is a cube with edge length x cm

One diagonal is shown.



The total length, in centimetres, of the edges of the cube is a multiple of 18

Which statement is correct?

- A.** x is a whole number
- B.** x is not a whole number
- C.** x might be a whole number

(1 mark)

- 3** A square has an area of 0.25 square metres.

What is the length, in **centimetres**, of one side of the square?

- A.** 0.5 cm
- B.** 5 cm
- C.** 50 cm
- D.** 500 cm

(1 mark)