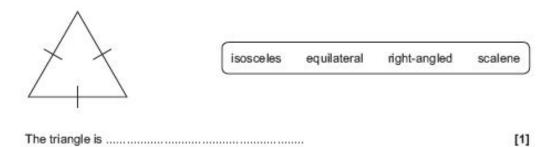
#### **3D Shape Questions**

#### OCR Thursday 8 November 2018 – Morning (Non-Calculator) Foundation Tier

- 1.
- 3 (a) Complete the statement using a term from the list.



(b) These are the names of some special quadrilaterals.

rectangle	parallel	ogram
trapezium	kite	rhombus

Choose a quadrilateral from the list that satisfies each set of conditions.

- (i) All four sides are the same length.
  - Opposite angles are equal.

(b)(i)		[1]
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- (ii) All four angles are right angles.
  Opposite sides are equal.
- (c) This is a square based pyramid.

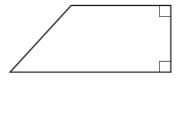


Complete the following.

A square based pyramid has ...... faces and ...... edges. [2]

## OCR Thursday 2 November 2017– Morning (Calculator) Foundation Tier

- 2.
  - 1 (a) Write down the mathematical name of this shape.



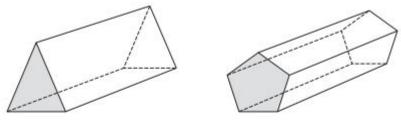
(a) .....[1]

(b) How many faces does a cube have?

(b) .....[1]

### OCR Sample Question Paper 2 – Morning/Afternoon (Non - Calculator) Foundation Tier

- 3.
- 9 These prisms have different shapes as end faces.



Triangle

Pentagon

(a) Complete this table.

Shape of end face	Number of faces	Number of edges	Number of vertices
Triangle (3 sides)	5	9	6
Rectangle (4 sides)			8
Pentagon (5 sides)		15	10
Hexagon (6 sides)	8	18	

[2]

(b) How many edges and vertices does a prism with a 100-sided end face have?

(b) edges .....

(c) F is the number of faces in a prism. N is the number of sides of its end face.

Write down a formula connecting F and N.

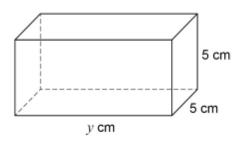
(c) ......[2]

# AQA Thursday 4 June 2020 – Morning (Calculator) Foundation Tier

4.

25

Here is a cuboid.



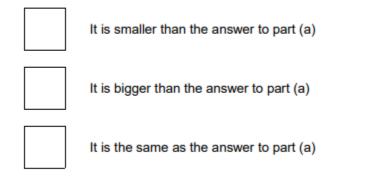
25 (a) Assume that the total surface area of the cuboid is 200 cm<sup>2</sup>
 Work out the volume of the cuboid.

	[3 marks]
A	- 3
Answer	cm <sup>3</sup>

25 (b) In fact, the total surface area of the cuboid is smaller than 200 cm<sup>2</sup>

What does this mean about the volume of the cuboid? Tick **one** box.

[1 mark]





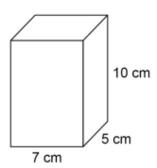
It could be any of the above

# AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

5.

14

Here is a cuboid.



### Work out the volume.

[2 marks]

Answer	cm <sup>3</sup>

## AQA Sample Paper 2– Morning (Calculator) Foundation Tier

6.

21 This pyramid has a square base.

