2D SHAPES

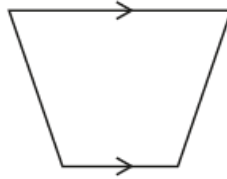**OCR Tuesday 5 November 2019 – Morning (Calculator) Foundation Tier**
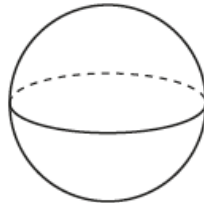
1.

1 **(a)** Write down the mathematical name of this quadrilateral.

(a) .... **[1]**

(b) Write down the mathematical name of this solid.

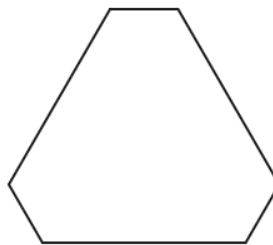**(b)** .... **[1]**

OCR Tuesday 21 May 2019 – Morning (Calculator) Foundation Tier

2.

1 **(a)** Write down the mathematical name of this polygon.

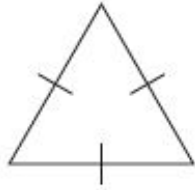**(a)** .... **[1]**

(b) Write down the order of rotation symmetry of the polygon.

(b) .... **[1]**

3.

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

| isosceles | equilateral | right-angled | scalene |

The triangle is .... [1]

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

| rectangle | parallelogram |
| trapezium | kite | rhombus |

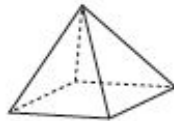Choose a quadrilateral from the list that satisfies each set of conditions.

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

(b)(i) .... [1]

(ii) • All four angles are right angles.
 • Opposite sides are equal.

(ii) .... [1]

(c) This is a square based pyramid.

Complete the following.

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

4.

5 A shape is drawn on a one-centimetre grid.
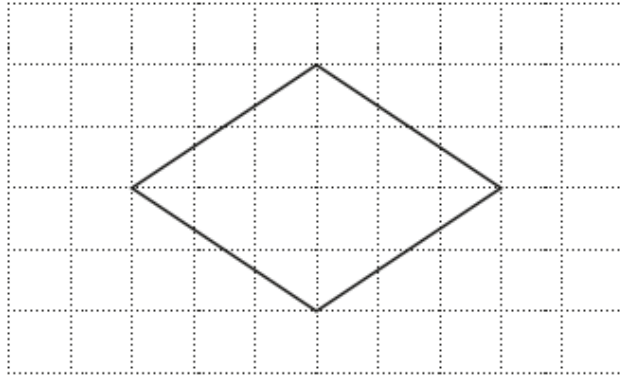
(a) Ring the mathematical name of the shape.

Pentagon   Square   Octagon   Rhombus   [1]

(b) How many lines of symmetry does the shape have?

(b) .... [1]

(c) Work out the area of the shape.

(c) .... cm^2 [2]

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

5.

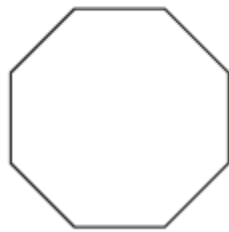**1** **(a)** Write down the mathematical name of this triangle.
Choose from the list in the box.

| isosceles   equilateral   right-angled   scalene |

(a) ....triangle **[1]**

(b) Write down the order of rotation symmetry of this regular octagon.

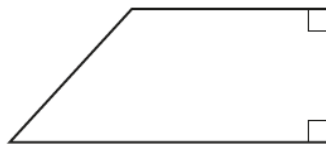(b) .... **[1]**

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

6.

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

(a) .... **[1]**

(b) How many faces does a cube have?

(b) .... **[1]**

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

7.

15   Circle the shape that has a uniform cross section.

[1 mark]

cone   sphere   cylinder   pyramid

AQA Thursday 11 June 2019 – Morning (Calculator) Foundation Tier

8.

29   Two sides of a triangle have lengths 13 cm and 27 cm

Which of these is a **possible** length of the other side?
Circle your answer.

[1 mark]

13 cm   14 cm   27 cm   40 cm

AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

9.

4   On a circle, which of these is **always** longer than the diameter?
Circle your answer.

[1 mark]

chord   arc   radius   circumference

AQA Monday 6 November 2017 – Morning (Calculator) Foundation Tier

10.

10   One of the angles in a triangle is 60°

Tick a box for each statement.

	Must be true	Cannot be true	Might be true
The triangle is equilateral			
The triangle has at least one other acute angle			
The triangle is right-angled			
The other two angles are each less than 60°			

[4 marks]

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

11.

3   Which of these shapes has the most sides?
        Circle your answer.
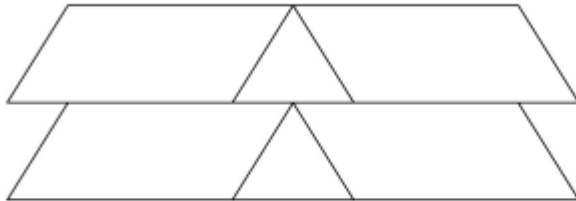
[1 mark]

        Hexagon   Octagon   Rhombus   Trapezium

AQA Tuesday 13 June 2017 Morning– Morning (Calculator) Foundation Tier

12.

22 This shape is made from two triangles and four congruent parallelograms.

Not drawn
accurately

For each statement, tick the correct box.

22 (a) The triangles are equilateral.

[1 mark]

☐ Must be true

☐ Could be true

☐ Must be false

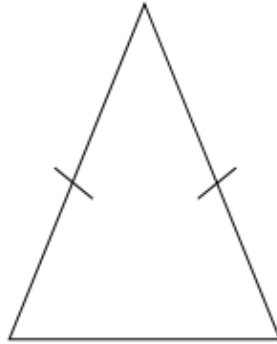**22 (b)** The triangles are congruent.

[1 mark]

☐ Must be true

☐ Could be true

☐ Must be false

13.

7   This triangle is drawn accurately.

What type of triangle is it?

Tick **two** boxes.

[1 mark]

acute-angled ☐

obtuse-angled ☐

equilateral ☐

isosceles ☐

scalene ☐

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

14.

4   Which shape is congruent to shape **X**?
Circle the correct letter.

[1 mark]

X

A

B

C

D