

Name _____

Date _____

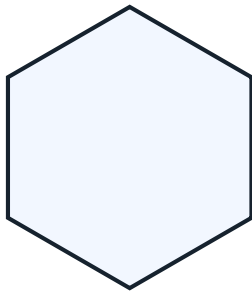
Stage 7 End-of-unit test 8

22 questions · 39 marks · calculators are not allowed · allow about 45 minutes

- 1 What is the name of a polygon with 8 sides? [1]

- 2 What do the interior angles of a pentagon total, in degrees? [2]

- 3 Each interior angle of a regular hexagon is how many degrees? [2]



regular hexagon

- 4 Each exterior angle of a regular decagon is how many degrees? [2]

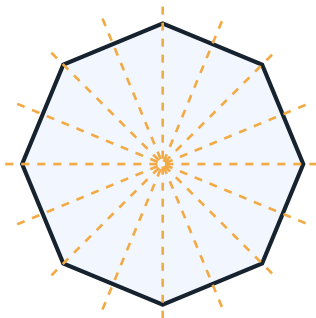
- 5 A regular polygon has an interior angle of 150° . How many sides has it? [3]

- 6 What makes a polygon regular? [2]
☐ All sides equal
☐ All angles equal
☐ All sides equal and all angles equal
☐ It has an even number of sides
- 7 A circle has radius 9 cm. What is its diameter, in cm? [1]

- 8 A circle has diameter 26 cm. What is its radius, in cm? [1]

- 9 Which part of a circle is the distance all the way round? [1]

- 10** How many lines of symmetry does a regular octagon have? [2]



regular octagon

- 11** What is the order of rotational symmetry of a regular pentagon? [2]
- 12** How many lines of symmetry does a parallelogram have? [2]
- 13** What is the order of rotational symmetry of a parallelogram? [2]
- 14** A parallelogram has no lines of symmetry but order 2. What does that show? [2]
- ☐ It has no symmetry
 - ☐ The two kinds of symmetry are independent
 - ☐ It is not a polygon
 - ☐ The order is wrong
- 15** A shape maps onto itself every 45° . What is its order? [2]
- 16** How many faces does a triangular prism have? [1]
- 17** How many edges does a cube have? [1]
- 18** How many vertices does a square-based pyramid have? [2]
- 19** What is a net? [1]
- ☐ A drawing of a solid
 - ☐ A flat shape that folds into the solid
 - ☐ The base
 - ☐ The volume
- 20** A solid has 8 faces and 12 vertices. Use Euler's rule to find the number of edges. [3]
- 21** A prism has a hexagonal cross-section. How many faces has it? [2]

- 22** A stop sign is a regular octagon. What is each interior angle, in degrees? [2]
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END OF TEST