

Name _____

Date _____

Maths vocabulary — worksheet

40 tasks in five styles, covering every key word in Unit 1.

A · Unscramble the term — Rearrange the letters to make the term that matches the definition.

1 nopylog

A closed shape made of straight sides.

Example: A hexagon has 6.

2 eevtrx

A corner where sides or edges meet.

Example: A cube has 8.

3 uarids

The distance from the centre to the edge.

Example: Half the diameter.

4 eidmater

The distance right across through the centre.

Example: Twice the radius.

5 rysmmtey

Balance in a shape, by folding or by turning.

Example: A square has 4 lines of symmetry.

6 mrpsi

A solid with the same cross-section throughout.

Example: A tent.

7 dyparim

A solid rising from a base to a single apex.

Example: The Great Pyramid.

8 dhcro

A straight line joining two points on a circle.

Example: A diameter is the longest.

B · Fill in the gaps — Use a word from the box to complete each sentence.

- 9 A closed shape made of straight sides is a _____.
Word box: ☐
-
- 10 A polygon with all sides and all angles equal is _____.
Word box: ☐
-
- 11 The distance from the centre of a circle to its edge is the _____.
Word box: ☐
-
- 12 The distance right across a circle through the centre is the _____.
Word box: ☐
-
- 13 The distance all the way round a circle is its _____.
Word box: ☐
-
- 14 A line a shape folds along so the halves match is a line of _____.
Word box: ☐
-
- 15 A flat shape that folds up into a solid is a _____.
Word box: ☐
-
- 16 A solid with the same cross-section all the way along is a _____.
Word box: ☐
-

C · Choose the correct ending — Pick the reason that correctly finishes each sentence.

- 17 The exterior angles of any polygon total 360° because ...
☐ all polygons are regular
☐ walking right round the outside turns you through one full turn
☐ the interior angles total 360°
- 18 The interior angles of an n-gon total $180(n - 2)^\circ$ because ...
☐ there are n angles
☐ it splits into $n - 2$ triangles
☐ each angle is 180°
- 19 A rectangle is not a regular polygon because ...
☐ its angles are unequal
☐ its sides are not all equal
☐ it has four sides
- 20 A parallelogram has order 2 but no lines of symmetry, which shows ...
☐ it has no symmetry
☐ the two kinds of symmetry are independent
☐ the order must be wrong

21 The smallest order of rotational symmetry is 1 because ...

- ☐ every shape has some symmetry
- ☐ a full turn always maps a shape onto itself
- ☐ 0 is not a number

22 Euler's rule $F + V - E = 2$ is useful because ...

- ☐ it gives the volume
- ☐ it checks a count of faces, edges and vertices
- ☐ it names the solid

D · Match the definition — Type the term that matches each definition.

23 Which term means: *A closed shape made of straight sides.*

24 Which term means: *All sides equal and all angles equal.*

25 Which term means: *An angle inside a polygon at a vertex.*

26 Which term means: *The angle between a side and the next side extended.*

27 Which term means: *The distance from the centre to the edge.*

28 Which term means: *The distance right across through the centre.*

29 Which term means: *The distance all the way round a circle.*

30 Which term means: *A straight line joining two points on a circle.*

31 Which term means: *A line a shape folds along so the halves match.*

32 Which term means: *How many times a shape looks the same in a full turn.*

33 Which term means: *A flat surface of a solid.*

34 Which term means: *A flat shape that folds into a solid.*

E · Reading shape questions — What the instruction words are asking for.

35 A question says “name the polygon”. What is wanted?

- ☐ The number of sides
- ☐ The word, such as hexagon
- ☐ The angle sum
- ☐ A drawing

- 36** A question says “state the order of rotational symmetry”. What form should the answer take?
- ☐ An angle
 - ☐ A whole number
 - ☐ A word
 - ☐ A drawing
- 37** A question says “sketch the net”. What must your drawing show?
- ☐ The solid in 3D
 - ☐ Every face, laid flat and joined at the edges
 - ☐ Just the base
 - ☐ The volume
- 38** What does “regular” mean in a shape question?
- ☐ Common
 - ☐ All sides and all angles equal
 - ☐ Symmetrical
 - ☐ Having an even number of sides
- 39** A question says “explain why”. What earns the mark?
- ☐ The answer alone
 - ☐ A reason, such as “exterior angles total 360° ”
 - ☐ A drawing
 - ☐ A calculation
- 40** What is the plural of vertex?
- ☐ vertexes
 - ☐ vertices
 - ☐ vertex
 - ☐ vertexi