

INTRODUCTION TO POLYGONS

1) State the name of a six-sided shape.

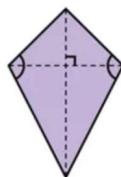
2) Explain the side and angle properties of an isosceles triangle. Then, sketch an isosceles triangle.

3) Draw the parallel lines on the trapezium pictured below.



4) How many 90° angles does a rectangle have?

5) State three side and angle properties of a kite.



6) What is the difference between a regular polygon and an irregular polygon?

7) How many sides does a decagon have?

8) State the name of the polygon pictured below.



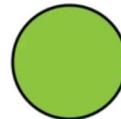
9) Name three polygons that have all sides equal and all angles equal.

10) What is the sum of the interior angles of a rectangle?



11) Which polygon has the smallest possible number of sides?

12) Is the shape pictured below a polygon? Why or why not?



13) Name a quadrilateral with exactly one pair of parallel sides.

14) State the name of the polygon pictured below.



15) True or false: A square is a rectangle.

16) Name a polygon with no equal sides and no equal angles.

17) State the name of a 9-sided shape with equal side lengths and equal angles.

18) State the name of a 5-sided shape with equal side lengths and equal angles.

19) State the name of an 8-sided shape with unequal side lengths and unequal angles.

20) True or false: All rectangles are parallelograms.

21) How many pairs of parallel sides does a parallelogram have?

22) True or false: The opposite angles in a parallelogram are not equal.

23) Sketch a triangle that is both isosceles and right-angled.

24) Name a polygon with exactly two pairs of equal-length sides but no parallel sides.

25) Two sides of a shape are perpendicular if they intersect at $\underline{\hspace{1cm}}$ °.

26) Which has more sides: a nonagon or a heptagon? How many more?

27) State the name of an 11-sided shape.

28) State the name of a 12-sided shape.

29) State the name of the shape pictured below.



30) State the name of the polygon pictured below.



31) True or false: All kites are rhombuses.

32) State the name of the polygon pictured below.

