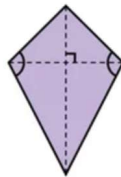


# INTRODUCTION TO POLYGONS

- 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  $90^\circ$  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  $\_\circ$ .

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.

