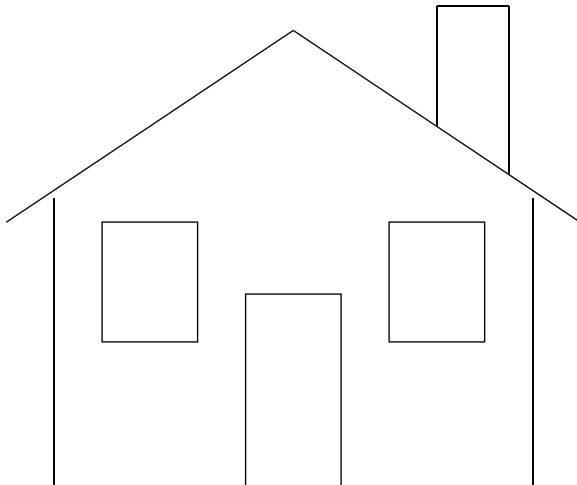


1. Kevin drew a diagonal inside a quadrilateral and made 2 equilateral triangles. What kind of quadrilateral did Kevin use to draw the triangles?

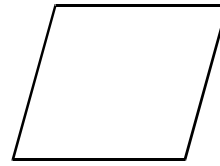
A pentagon
B rectangle
C rhombus
D trapezoid

2. This picture is made *mostly* of which of the following?

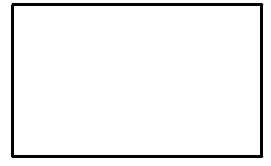


A acute angles and intersecting line segments
B obtuse angles and diagonal line segments
C right angles and straight line segments
D right angles and circles

3. Which statement correctly compares this parallelogram and this rectangle?



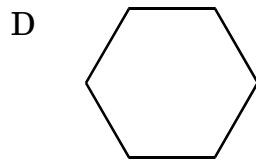
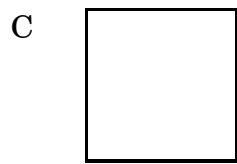
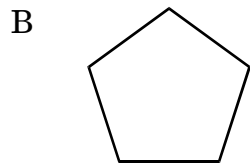
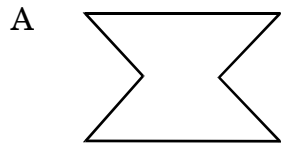
Parallelogram



Rectangle

- A Both figures are polygons with four right angles.
B Both figures are polygons with pairs of parallel opposite sides.
C Both figures are polygons whose interior angles total 180 degrees.
D Both figures are polygons with at least two acute angles.

4. Which of the following is a plane figure with 6 sides, 6 obtuse angles, and 6 vertices?



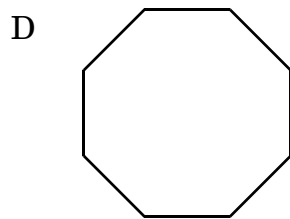
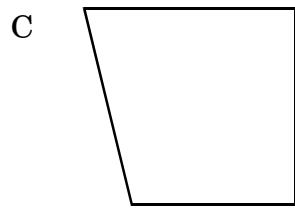
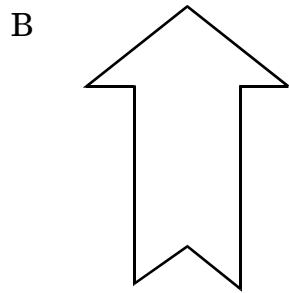
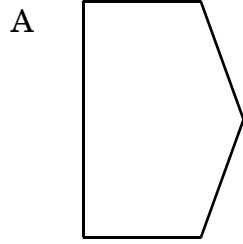
5. A triangle has two 45° interior angles. Which term correctly describes the triangle?

- A regular
B scalene
C equilateral
D isosceles

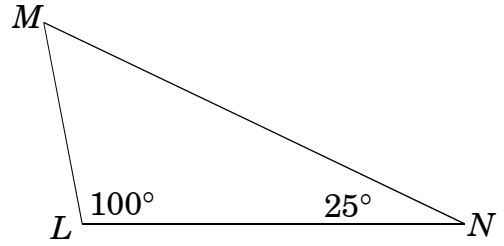
6. Which of the following can never have rotational symmetry?

- A scalene triangle
B pentagon
C rectangle
D regular octagon

7. Which figure below has both line symmetry and rotational symmetry?

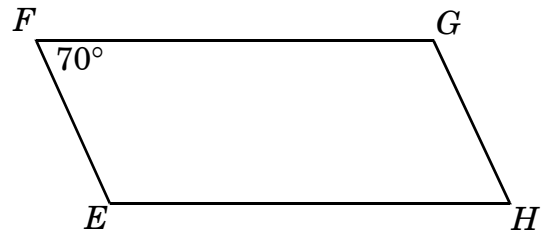


8. What is the measure of $\angle M$ in triangle LMN ?



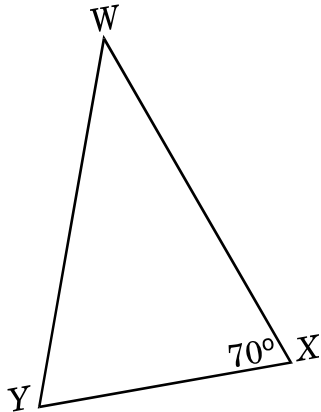
- A 55°
- B 80°
- C 125°
- D 180°

9. What is the sum of the measures of $\angle E$ and $\angle G$ in the parallelogram shown below?



- A 110°
- B 140°
- C 220°
- D 290°

10. In the triangle below, $\angle X$ and $\angle Y$ are congruent.



What is the measure of $\angle W$?

- A 40°
B 50°
C 70°
D 110°
11. $\triangle DEF$ is isosceles. Its perimeter is 52 cm. The length of a side of $\triangle DEF$ is 18 cm. Which is the smallest possible length of another side of $\triangle DEF$?
- A 15 cm
B 16 cm
C 17 cm
D 18 cm

12. Which of these polygons must have diagonals that are perpendicular?
- A rectangle
B parallelogram
C trapezoid
D rhombus
13. Which quadrilateral has exactly one pair of parallel sides?
- A parallelogram
B rhombus
C trapezoid
D rectangle

End of Goal 3 Sample Items

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