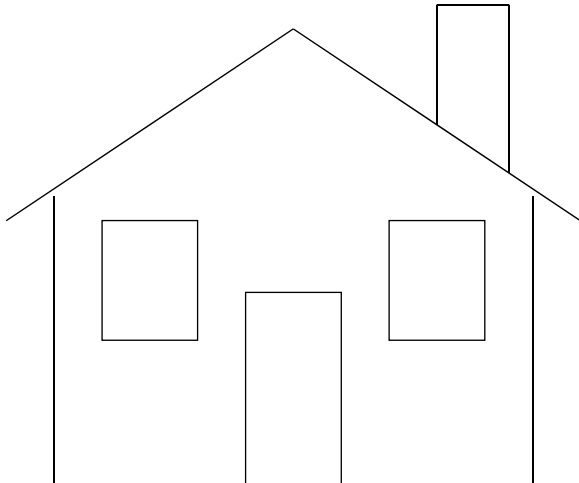


1. Kevin drew a diagonal inside a quadrilateral and made 2 equilateral triangles. What kind of quadrilateral did Kevin use to draw the triangles?

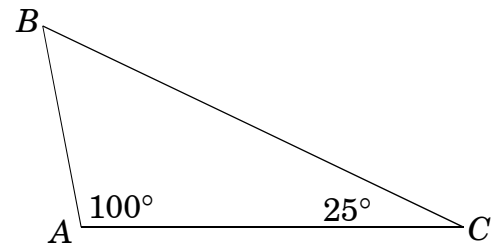
A rhombus
 B pentagon
 C rectangle
 D trapezoid

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



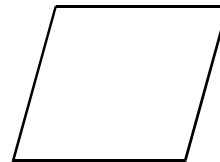
A obtuse angles and diagonal line segments
 B right angles and circles
 C acute angles and intersecting line segments
 D right angles and straight line segments

3. What is the measure of $\angle B$ in triangle ABC ?

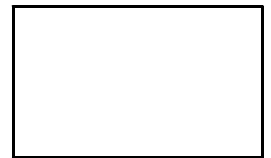


A 55°
 B 80°
 C 125°
 D 180°

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



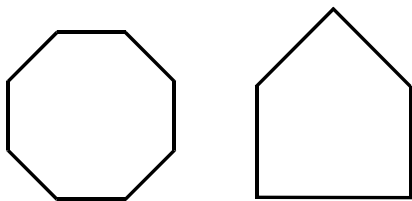
Parallelogram



Rectangle

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

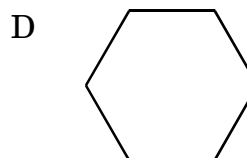
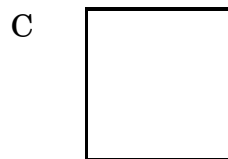
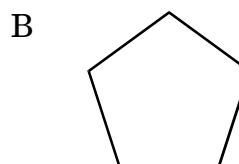
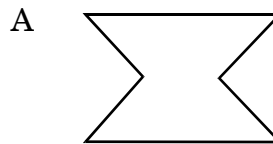
5. Charles noticed these highway signs on his way to school.



Which statement **best** describes the signs Charles saw?

- A Only right angles are in the two signs.
- B Right angles or obtuse angles are in the signs.
- C Acute angles or obtuse angles are in the signs.
- D Only obtuse angles are in the two signs.

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



7. Which of these polygons must have diagonals that are perpendicular?
- A rectangle
 - B parallelogram
 - C trapezoid
 - D rhombus

8. A triangle has two 45° interior angles. Which term correctly describes the triangle?
- A regular
 - B scalene
 - C equilateral
 - D isosceles

End of Goal 3 Sample Items

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Answers to EOG Grade 5 Math Sample Items

Goal 3

1. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Integrating

Correct Answer: A

2. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Analyzing

Correct Answer: D

3. Objective 3.04

Solve problems involving the properties of triangles, quadrilaterals, and other polygons. a) Sum of the measures of interior angles. b) Lengths of sides and diagonals. c) Parallelism and perpendicularity of sides and diagonals.

Thinking Skill: Applying

Correct Answer: A

4. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Organizing

Correct Answer: A

5. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Analyzing

Correct Answer: B

6. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Organizing

Correct Answer: D

7. Objective 3.04

Solve problems involving the properties of triangles, quadrilaterals, and other polygons. a) Sum of the measures of interior angles. b) Lengths of sides and diagonals. c) Parallelism and perpendicularity of sides and diagonals.

Thinking Skill: Organizing

Correct Answer: D

8. Objective 3.01

Identify, define, describe, and accurately represent triangles, quadrilaterals, and other polygons.

Thinking Skill: Applying

Correct Answer: D