4th Grade Unit 6: Geometry (Form A)

Name _____   **Date** _____

Standard:
46.G.1 draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines and identify these in two-dimensional figures

47.G.2 classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles

49.G.3 recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry
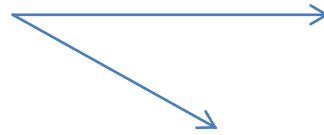
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1. Write >, <, or =.

   Right angle _____ 90°
   Obtuse angle _____ 90°
   Acute angle _____ 90°

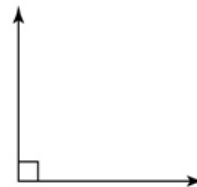2. Choose whether the angle is obtuse, acute, or right angle.

   a. obtuse   b. acute   c. right

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3. What polygon has exactly five sides?
   a. pentagon
   b. quadrilateral
   c. polygon
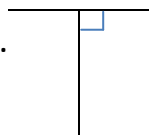   d. hexagon

   Draw an example of a 5-sided polygon:

4. Choose whether the angle is straight, acute, or right angle.

   a. straight   b. acute   c. right

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5. Choose intersecting, parallel, or perpendicular to **best** describe the relationship between the pair of line segments.

   a. intersecting
   b. parallel
   c. perpendicular

6. Draw and name a quadrilateral with two pairs of parallel sides and no right angles.
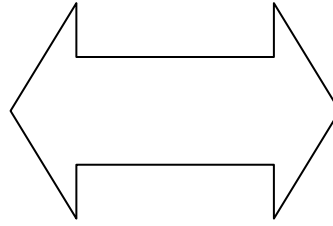
   _____

4th Grade Unit 6: Geometry (Form A)

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7. Which letter found below does NOT have a line of symmetry? Draw lines of symmetry on the other 3 letters.

a. A

b. C

c. M

d. F

8.

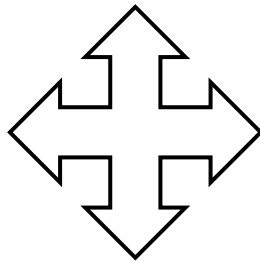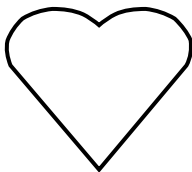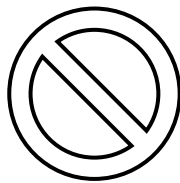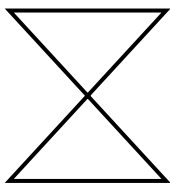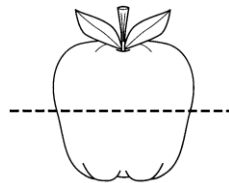a) Draw a line of symmetry on the figure.

b) Does the figure have more than one line symmetry? Explain how you know.

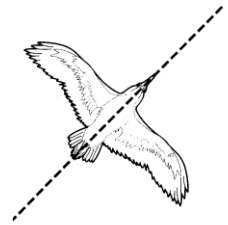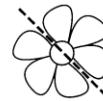9. Draw all the lines of symmetry in these figures.
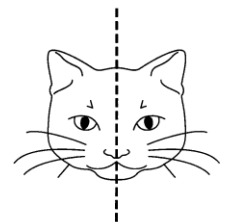
10. Which drawing does NOT show a line of symmetry?
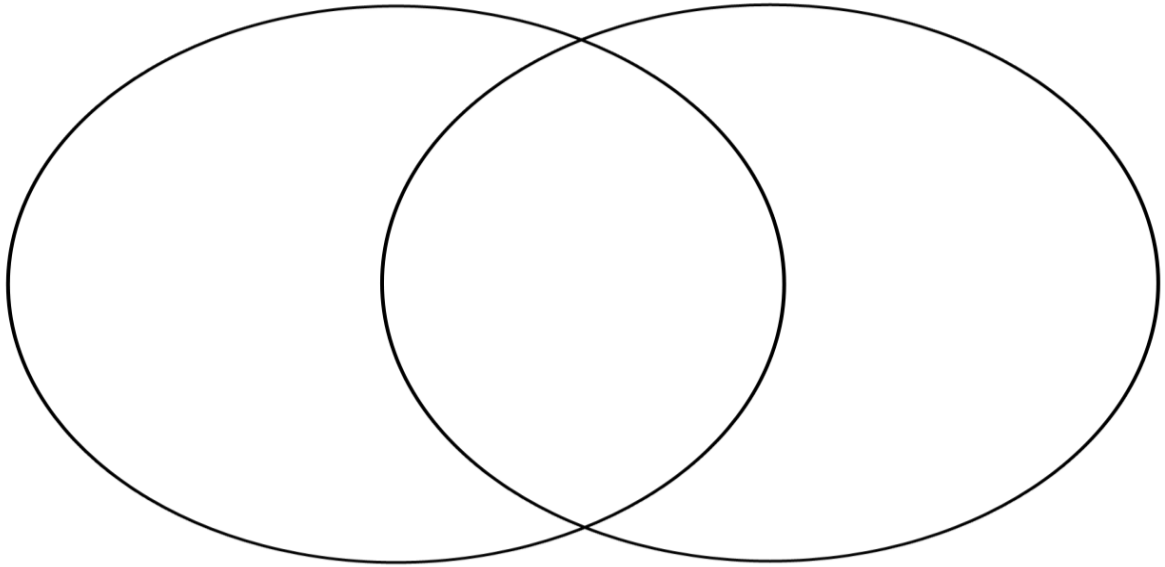
A

C

B

D

Name _____   Date _____

11. Classify the triangle by its sides and its angles. Choose the correct pair of words.
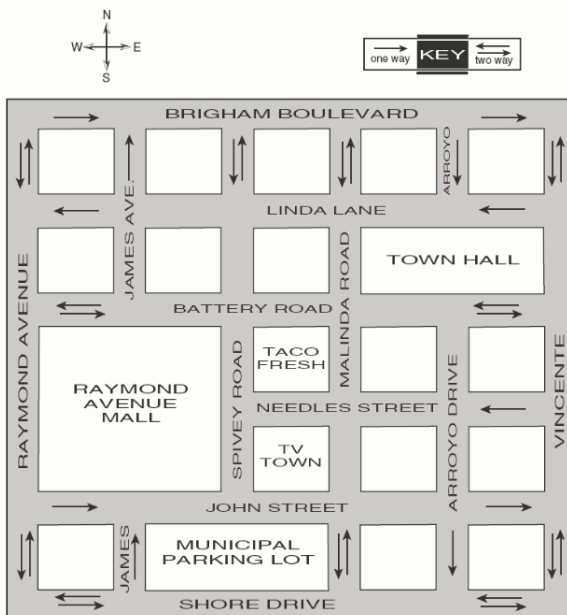
    a. equilateral, acute
    b. scalene, obtuse
    c. isosceles, obtuse
    d. scalene, right

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12. Use the Venn diagram to compare and contrast a trapezoid and a parallelogram. Tell 2 ways they are similar and 2 ways they are different (sides, angles, symmetry).

13.

    a. Name a street that is parallel to Brigham Boulevard.
    _____

    b. Name two streets that are perpendicular to Needles Street.
    _____
    _____

    c. How many streets are perpendicular to Battery Road? _____

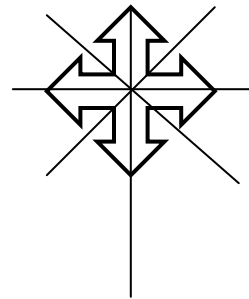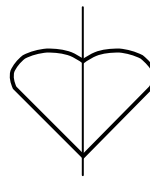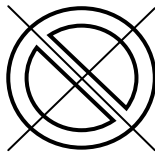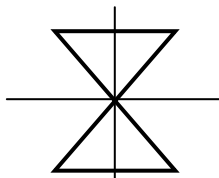**4th Grade Unit 6: Geometry (Form A)**

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Answer Key

1. a. =

   b. >

   c. <

2. b. acute

3. a. Pentagon

   b. varies but must be a closed figure with 5 straight sides

4. c. right

5. c. perpendicular

6. parallelogram or rhombus(drawing cannot be a square or a rectangle)

7. A — C — M (d.)F

8. The figure has two lines of symmetry: one horizontally, and one vertically.

9.

10. a. apple

11. c. isosceles, obtuse

12. Answers may include but are not limited to:

    - Both have 4 sides/ are quadrilaterals
    - Both are polygons (closed figures, straight sides, plane figures)
    - Both have at least one pair of parallel sides
    - A trapezoid has only one pair of parallel sides
    - A parallelogram has 2 pair of parallel sides
    - A trapezoid can have 2 congruent sides or zero congruent sides
    - A parallelogram has 2 pair of parallel sides or 4 congruent sides.

13. a. Linda Ln., Battery Rd., Needles St., John St., or Shore Dr. (names 1)

    b. Spivey Rd., Malinda Rd., Arroyo Dr., or Vincente (names 2)

    c. 6