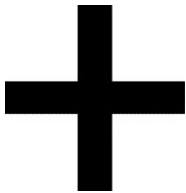# Chapter 5 Unit Assignment

*For #1 to #5, select the best answer by **circling** the correct response.*

1. What is the perimeter of a gazebo in the shape of a regular hexagon with a side length of 2 m?
    A   6 m
    B   8 m
    C   12 m
    D   16 m

2. How many lines of symmetry are there in the plus sign?
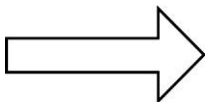

    A   1
    B   2
    C   3
    D   4

3. Which three-sided figure has an interior right angle?
    A   an equilateral triangle
    B   an oblique triangle
    C   a triangle with sides measuring 3, 4, and 5 units
    D   an isosceles triangle

4. How many lines of symmetry does the arrow have?

    A   0
    B   1
    C   2
    D   3

5. What is the sum of the interior angles of a quadrilateral?
    A   180°
    B   360°
    C   540°
    D   720°

Name: _____   Date: _____

6. Describe how to use the measure of the interior angles of a regular polygon to determine if it can be tessellated.

8. Draw an isosceles trapezoid. Why is it called isosceles? Draw all lines of symmetry.

9. Sketch and label a triangle with each property.
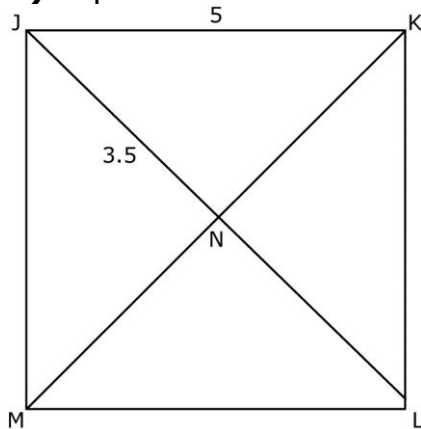**a)** one pair of equal sides

b) three lines of symmetry

7. Draw a diagram of at least three different regular polygons arranged in a design that could be used to tile a shower wall. Use the polygons to produce a tessellation and describe why it qualifies as a tessellation. Name each different regular polygon.
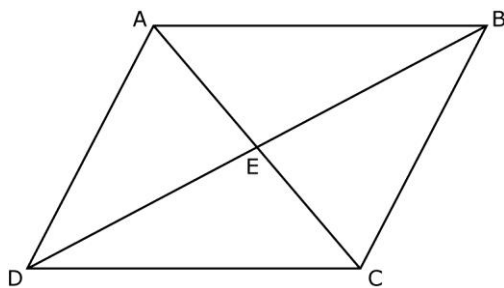
c) all acute angles

d) one line of symmetry

Name: _____   Date: _____

11. The diagram shows one half of a polygon. The dashed line is a line of symmetry.

10. Determine the unknown measurements.

a) square

J ——— 5 ——— K

3.5

N

M ——————— L

ML =
KM =
NL =
∠JNK =
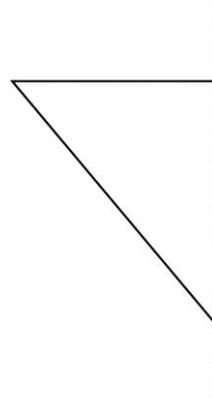
a) What type of polygon is it?

b) How many lines of symmetry does the polygon have?

c) Name a three-sided figure with greater symmetry.

b) parallelogram

A ——————— B

E

D ——————— C

AD = 8
BC =
∠AED = 80°
∠AEB =
∠BEC =
∠CED =

12. Nicole plans to cut a triangular ceramic tile for a mosaic design. What mistake has she made with her sketch?

83°

8 cm   10 cm

41°   56°

12 cm

End May 14, 2020