Name: _____ Date: _____

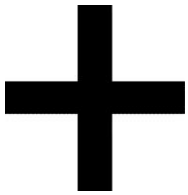
BLM 5–10

Chapter 5 Test

For #1 to #5, select the best answer.

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

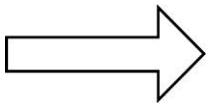
2. How many lines of symmetry are there in the plus sign?



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°

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

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.

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
c) all acute angles
d) one line of symmetry

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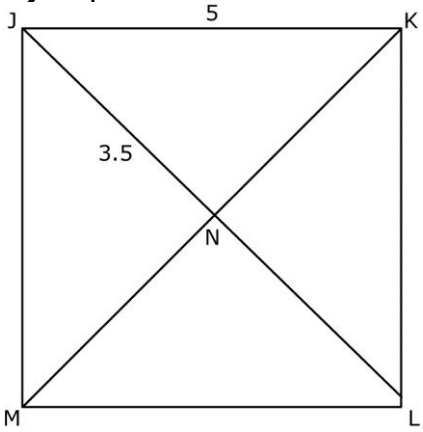
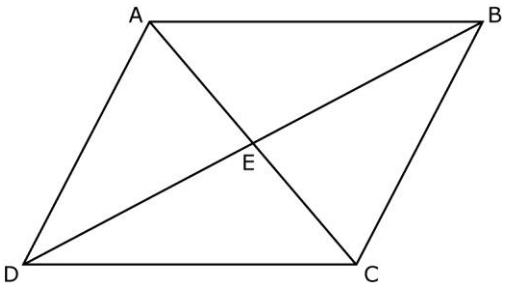
10. Determine the unknown measurements.

a) square



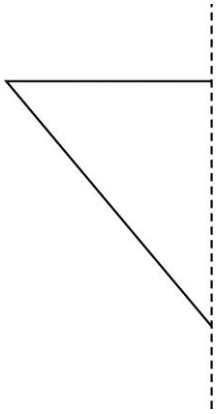
ML =
KM =
NL =
∠JNK =

b) parallelogram



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

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



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.

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