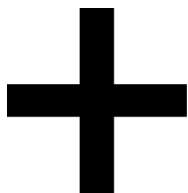# Chapter 5 Test

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?
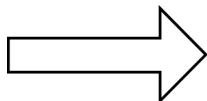

A 1
B 2
C 3
D 4

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.
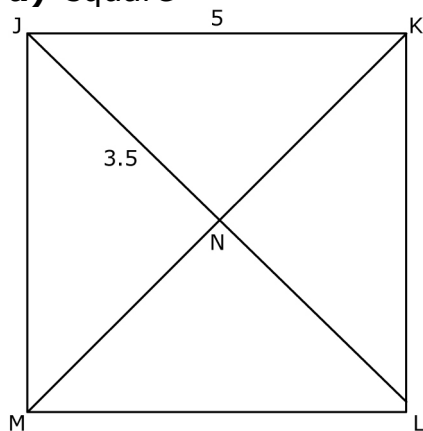
9. Sketch and label a triangle with each property.
a) one pair of equal sides
b) three lines of symmetry
c) all acute angles
d) one line of symmetry
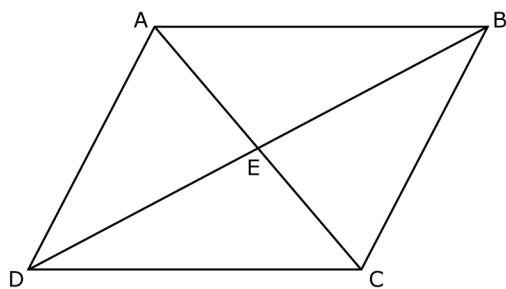
10. Determine the unknown measurements.

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?