Summer Packet

4th grade entering 5th grade
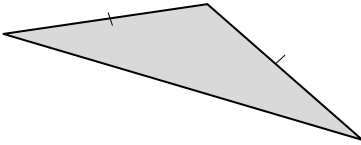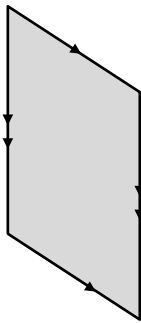
2020-2021

Week1

Week 1 Grade4:

Name _____   Date _____

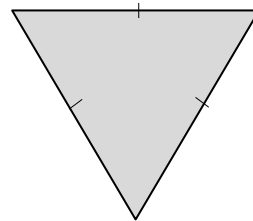1. Find and draw all lines of symmetry in the following figures. If there are none, write "none."
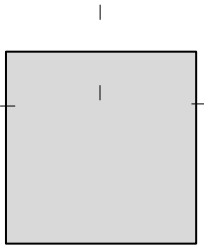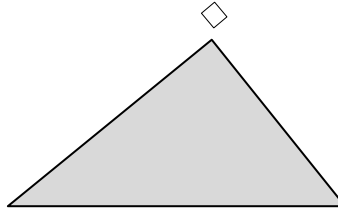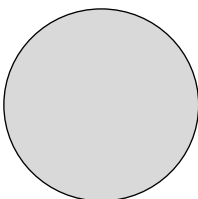
a.

b.

c.

d.

e.

f.

g. For each triangle listed below, state whether it is acute, obtuse, or right and whether it is isosceles, equilateral, or scalene.

Triangle a: _____ _____

Triangle c: _____ _____

Triangle e: _____ _____

h. How many lines of symmetry does a circle have? What point do all lines of symmetry for a given circle have in common?
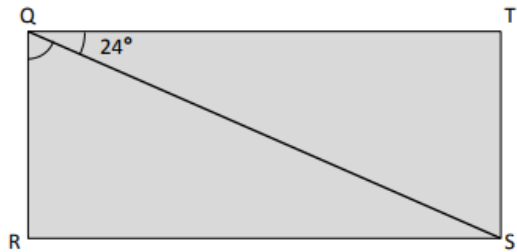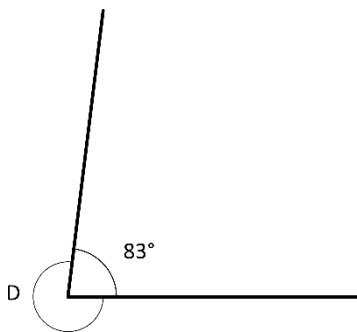
_____

_____

_____

_____

2. In the following figure, QRST is a rectangle. Without using a protractor, determine the measure of

ZRQS. Write an equation that could be used to solve the problem.

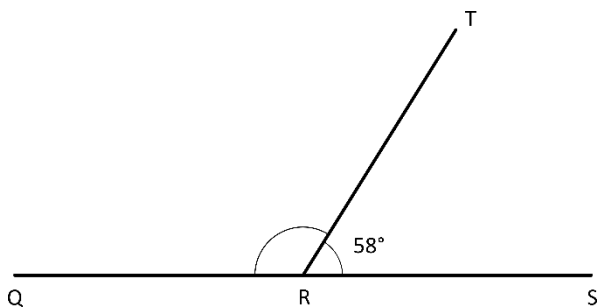For each part below, explain how the measure of the unknown angle can be found without using a
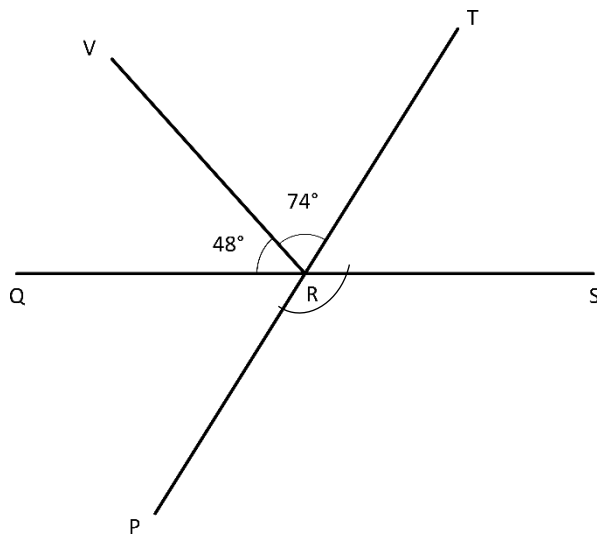
protractor.

a.   Find the measure of ∠D.

b.   In this figure, Q, R, and S lie on a line. Find the measure of ∠QRT.

c. In this figure, Q, R, and S lie on a line, as do P, R, and T. Find the measure of ∠PRS.

3. Mike drew some two-dimensional figures.

Sketch the figures, and answer each part about the figures that Mike drew.

a. He drew a four-sided figure with four right angles. It is 4 cm long and 3 cm wide.

   What type of quadrilateral did Mike draw?

   How many lines of symmetry does it have?

b. He drew a quadrilateral with four equal sides and no right angles.

   What type of quadrilateral did Mike draw?

   How many lines of symmetry does it have?

c. He drew a triangle with one right angle and sides that measure 6 cm, 8 cm, and 10 cm.

   Classify the type of triangle Mike drew based on side length and angle measure.

   How many lines of symmetry does it have?

d. Using the dimensions given, draw the same shape that Mike drew in Part (c).

e. Mike drew this figure. Without using a protractor, find the sum of ∠FJK, ∠KJH, and ∠HJG.
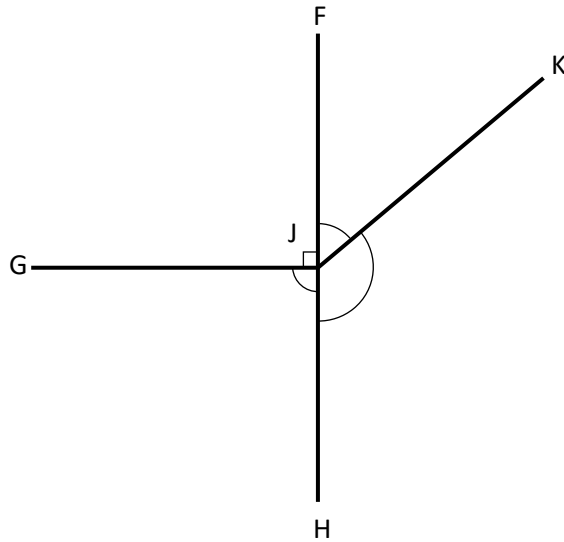
f. Points F, J, and H lie on a line. What is the measure of ∠KJH if ∠FJK measures 45°? Write an equation that could be used to determine the measure of ∠KJH.

g. Mike used a protractor to measure ∠ABC as shown below and said the result was exactly 130°. Do you agree or disagree? Explain your thinking.
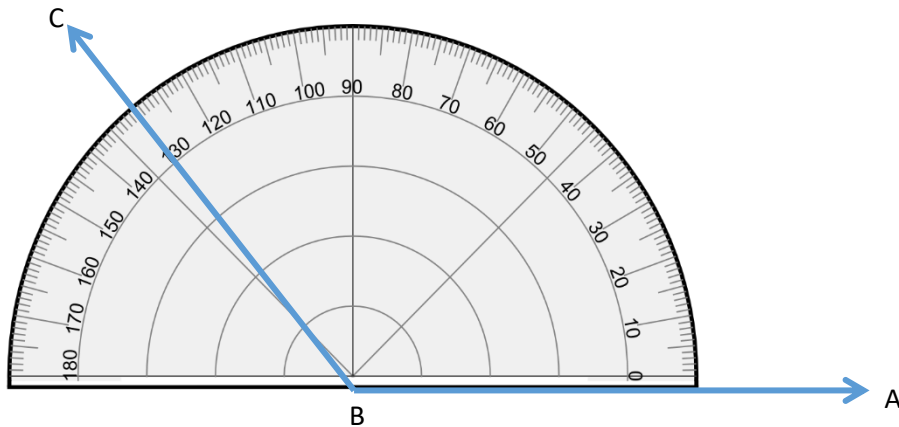
h. Below is half of a line-symmetric figure and its line of symmetry. Use a ruler to complete Mike's drawing.