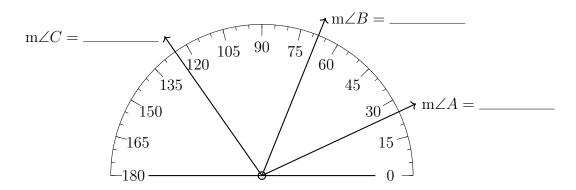
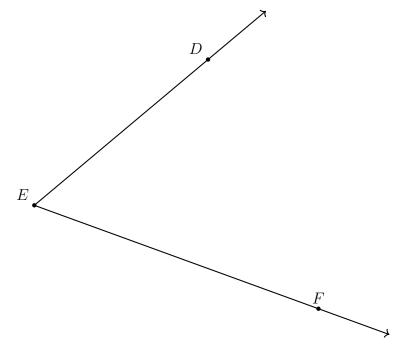
First and last name: Section:

1.21 Classwork: Angle measures, transversals

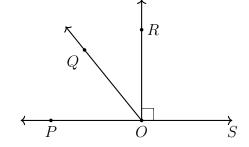
1. Use the image of the protractor to measure each of the angles.



- 2. (a) Write down the name of the angle below using proper geometric notation.
 - (b) Find the measure of the angle in degrees with a protractor.
 - (c) Is it an acute, obtuse, or right angle?



- 3. Circle True or False for each statement.
 - (a) T F Point P is the vertex
 - (b) T F \overrightarrow{OP} , \overrightarrow{OS} are opposite rays
 - (c) T F $m\angle ROS = 90^{\circ}$
 - (d) T F $\angle QOS$ is an acute angle



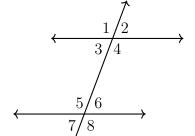
4. Given two parallel lines and a transversal, as shown, with $m\angle 6 = 70^{\circ}$. Write down the value of each angle measure.





(b)
$$m\angle 2 =$$





(c)
$$m \angle 3 =$$

(g)
$$m \angle 7 =$$

(d)
$$m\angle 4 =$$

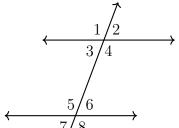
(h)
$$m\angle 8 =$$

5. Label the relationship of each pair: adjacent, vertical, corresponding, alternate interior, same side interior, alternate exterior, or same side exterior

(a)
$$\angle 1, \angle 4$$

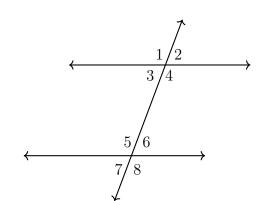






(d)
$$\angle 6, \angle 2$$

- 6. Identify each angle
 - (a) Opposite $\angle 4$
 - (b) Corresponding to $\angle 3$
 - (c) Alternate exterior to $\angle 8$
 - (d) Same side interior to $\angle 5$
 - (e) Alternate interior to $\angle 4$



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7. Using the given ray \overrightarrow{AB} as one leg, draw an angle that measures 55°.



- 8. Draw the square ABCD having the base \overline{AB} . (use a straight edge and protracter or square to work accurately)
 - (a) Label the vertices C, D and mark the side congruencies with hash marks. Measure and mark the length in centimeters of \overline{AB} . (label the units)
 - (b) Draw the diagonal \overline{AC} with a dashed line. Measure and label its length rounded to the nearest tenth of a centimeter (nearest millimeter).



- 9. Write the appropriate name for the type of angle depending on its measure in degrees. (acute, right, obtuse, or straight)
 - (a) $m\angle = 90$:
 - (b) 90 < m∠ < 180 : _____
 - (c) $0 < m \angle < 90$:
 - (d) $m\angle = 180 :$