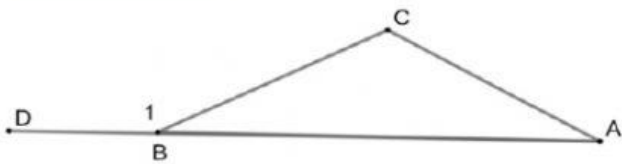


MATH 8 QUARTER 4 LAS 2B: LESSON: EXTERIOR ANGLE THEOREM & HINGE THEOREM

DIRECTIONS: FOR GUIDE QUESTIONS AND ACTIVITY QUESTIONS, TYPE YOUR **ANSWER IN THE BOX** PROVIDED, CLICK **FINISH** THEN CLICK **CHECK MY ANSWER**.

Guide Questions



1. What is the exterior angle of $\triangle ABC$? _____
2. Write the correct inequality symbol in the box to write two inequalities to describe $\angle 1$.
 $\angle 1$ $\angle A$ and $\angle 1$ $\angle C$
3. What theorem did you use to come up with your answer in question #2? _____
4. What is the relationship between the exterior angle of a triangle and its two-remote interior angle? _____
 - a. Exterior angle is **greater than** the measure of either remote interior angles.
 - b. Exterior angle is **less than** the measure of either remote interior angles.
 - c. Exterior angle is **equal to** the measure of either remote interior angles.



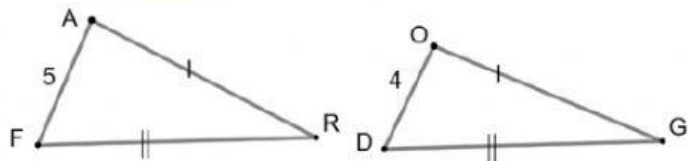
Activity 1:

Directions: Complete the statement by writing **<, = or >** in each BOX.

- 1.) In $\triangle FAR$ and $\triangle DOG$

$$\overline{AR} \cong \overline{OG} \text{ and } \overline{FR} \cong \overline{DG}$$

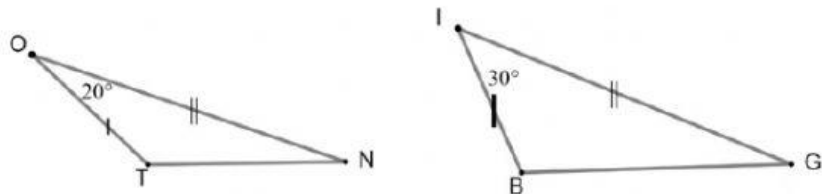
$$\angle R \text{ _____ } \angle G$$



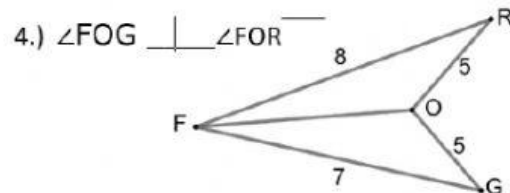
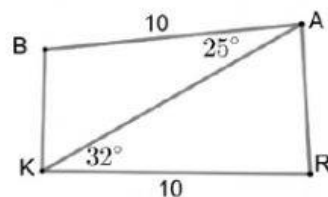
- 2.) In $\triangle TOR$ and $\triangle BIG$

$$\overline{TO} \cong \overline{BI} \text{ and } \overline{ON} \cong \overline{IG}$$

$$\angle T \text{ _____ } \angle B$$



- 3.) $\overline{AR} \text{ _____ } \overline{BK}$



Guide Questions

Which plane is closer to the airport?

- A. Plane 1
- B. Plane 2

Total Score: 10 points

