

Chapter 3 Test Re-take Review

Name: _____

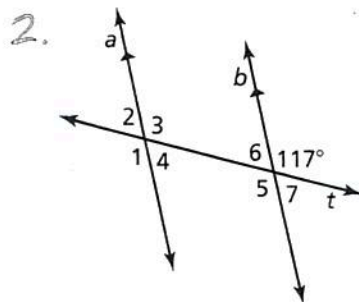
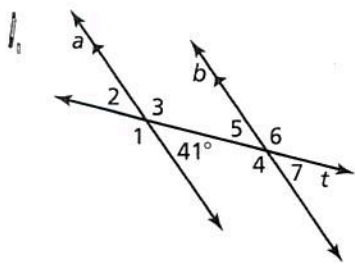
Date: _____ Hour: _____

Requirements/Procedure:

- 1.) Complete all problems in this review study guide, showing work whenever necessary.
- 2.) Show completed work to Mr. H or your support class teacher by the end of the day on Tuesday, January 19, 2016.
- 3.) Use the answer key to check your work. Ask questions at school or at home if you need help!
- 4.) Complete the re-take test on Wednesday, January 20th during your support class or after school with Mr. H. We will not use math class time!

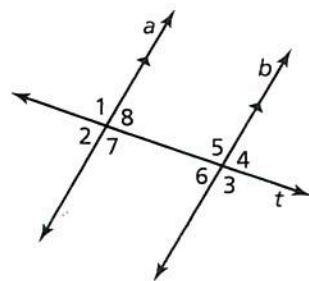
3.1

Use the figure to find the measures of the numbered angles.



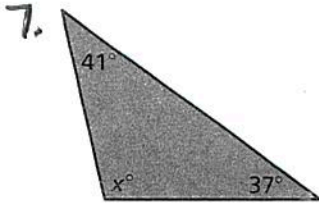
Complete the statement. Explain your reasoning.

3. If the measure of $\angle 1 = 160^\circ$, then the measure of $\angle 5 = \underline{\quad ? \quad}$.
4. If the measure of $\angle 6 = 37^\circ$, then the measure of $\angle 4 = \underline{\quad ? \quad}$.
5. If the measure of $\angle 8 = 82^\circ$, then the measure of $\angle 3 = \underline{\quad ? \quad}$.
6. If the measure of $\angle 4 = 60^\circ$, then the measure of $\angle 5 = \underline{\quad ? \quad}$.

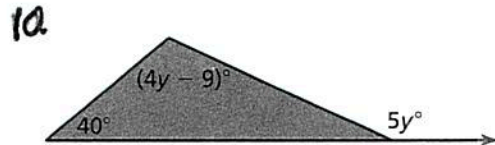


3.2

Find the measures of the interior angles.

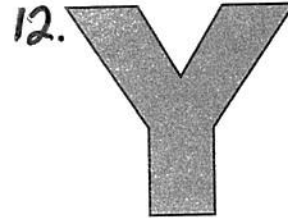
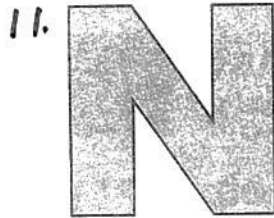


Find the measure of the exterior angle.



3.3

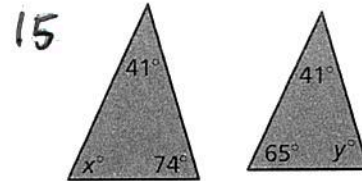
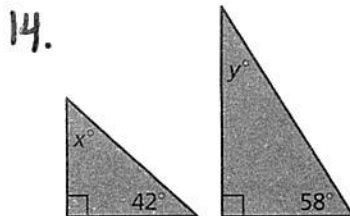
Find the sum of the interior angle measures of the polygon.



13. Four interior angles of a pentagon measure 50° , 73° , 146° , and 161° . Find the missing angle measure.

3.4

Tell whether the triangles are similar. Explain.



16. You and your friend are practicing for a rowing competition and want to know how far it is to an island in the Indian River Lagoon. You take measurements on your side of the lagoon and make the drawing shown.

- Explain why $\triangle ABC$ and $\triangle DEC$ are similar.
- What is the distance to the island?

