

Name _____ Date _____ Hour _____

7th Grade Advanced – Unit 1 Assessment - Study Guide part 2

The Unit 1 Assessment will cover the following concepts:

- 5 - Angles
- 6 - Classifying and Constructing Triangles/Quadrilaterals



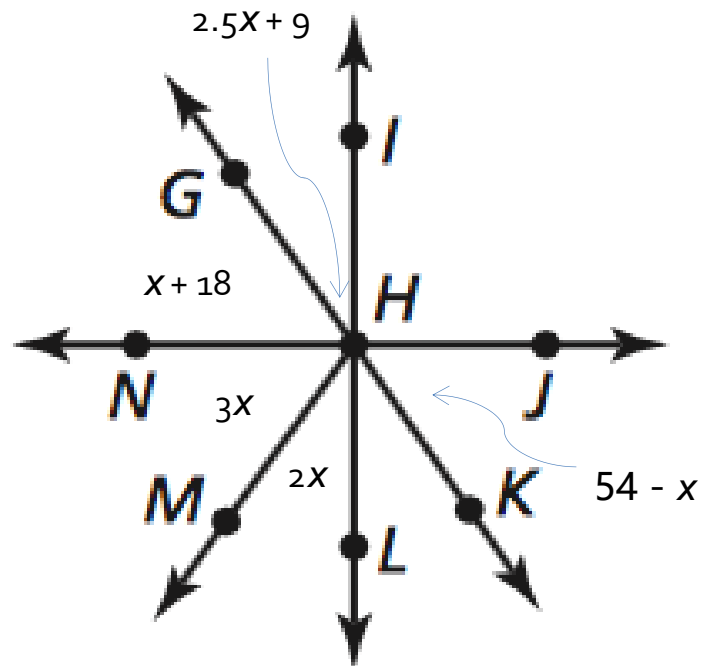
Use the diagram below to answer the following questions.

1. Name two angles that are adjacent to $\angle IHJ$.

2. $\angle IHN$ is a right angle.
Find the measure of $\angle GHN$.

3. Find the measure of $\angle MHL$.

4. Find the measure of $\angle KHJ$.



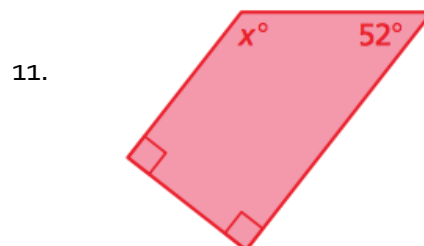
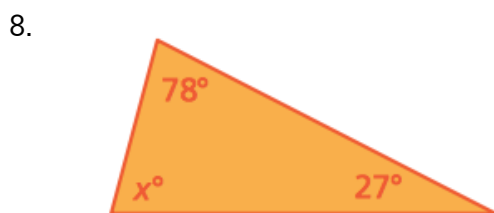
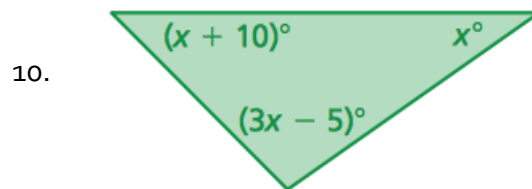
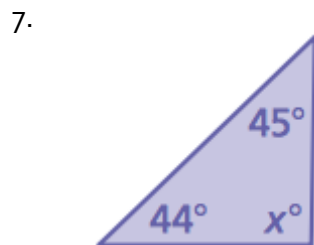
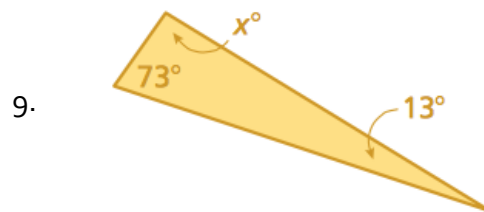
5. $\angle ABC$ and $\angle CBD$ are a supplementary linear pair and share a vertex at point B.

$$\angle ABC = 2x$$

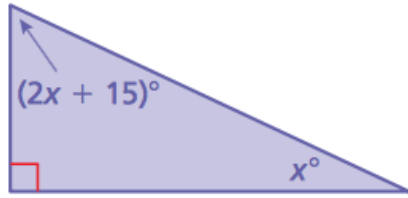
$$\angle CBD = 5x + 40$$

Draw a labeled diagram that fits this scenario. Then, find the value of x . (Show your work.)

Classify each of the following polygons and find the missing angle(s).



12.



Construct the following polygons.

12. A trapezoid with a pair of congruent sides.

13. A parallelogram with a 75° angle and a 4-centimeter side.

14. A scalene triangle with a 4-centimeter side and a 6-centimeter side.

15. An isosceles triangle with two 3-centimeter sides that meet at a 100° angle.