

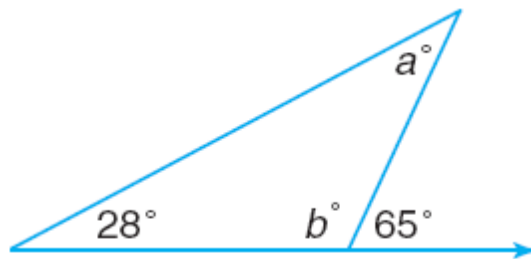
Name: _____

Triangles and Angles

Exercise 1: The measures of the angles of a triangle are $2x$, $3x$, and $4x$. Find the measure of each angle.

Exercise 2: Find $m\angle L$ in $\triangle MNL$ if $m\angle M = 25$ and $m\angle N = 25$

Exercise 3: Find the value of each variable in the figure below



Exercise 4: Choose the numbers that are not measures of the three angles of a triangle.

- a. 10° , 20° , 150°
- b. 30° , 60° , 90°
- c. 40° , 70° , 80°
- d. 45° , 55° , 80°

Exercise 5: The measure of one acute angle of a right triangle is 25° . Find the measure of the other acute angle.

Exercise 6: Is it possible to have two obtuse angles in a triangle?

Exercise 7: The measures of the angles of a triangle are $x + 5$, $3x + 14$, and $x + 11$. Find the measure of each angle.

Exercise 8: If two angles of one triangle are congruent to two angles of another triangle, what is the relationship between the third angles of the triangles? Explain your reasoning.