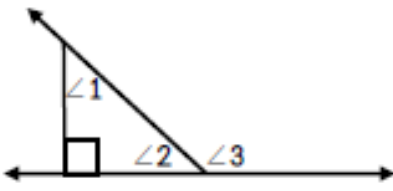
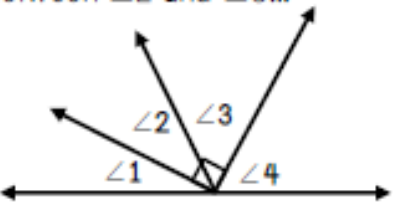
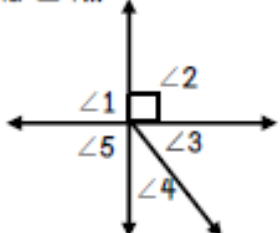
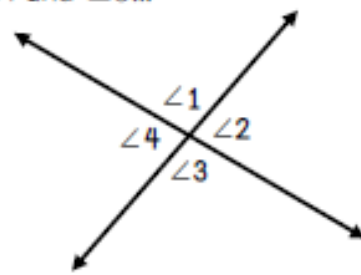
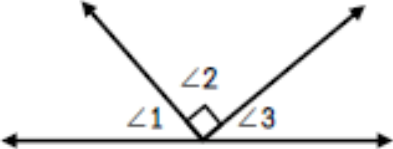
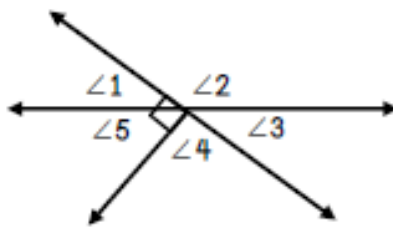
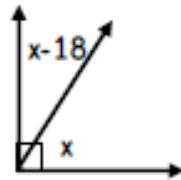
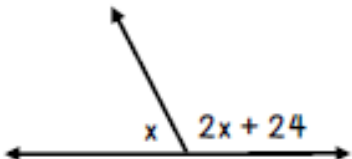
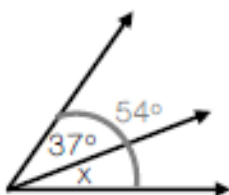


# ANGLES AND TRIANGLES UNIT STUDY GUIDE

Solve each of the problems below. These represent the types of questions on your test. Be sure to ask questions if you need more help with a topic.

I CAN CLASSIFY ANGLE RELATIONSHIPS.		7.G.5
<p>1. The relationship between <math>\angle 2</math> and <math>\angle 3</math>...</p> 	<p>2. The relationship between <math>\angle 2</math> and <math>\angle 3</math>...</p> 	<p>3. The relationship between <math>\angle 3</math> and <math>\angle 4</math>...</p> 
<p>4. The relationship between <math>\angle 1</math> and <math>\angle 3</math>...</p> 	<p>5. The relationship between <math>\angle 1</math> and <math>\angle 3</math>...</p> 	<p>6. The relationship between <math>\angle 2</math> and <math>\angle 3</math>...</p> 
I CAN USE COMPLEMENTARY & SUPPLEMENTARY ANGLES TO WRITE & SOLVE EQUATIONS.		7.G.5
<p>7.</p>  <p>Equation: _____</p> <p><math>x</math> : _____</p> <p><math>\angle</math> measures: _____</p>	<p>8.</p>  <p>Equation: _____</p> <p><math>x</math> : _____</p> <p><math>\angle</math> measures: _____</p>	<p>9. Two angles are supplementary. The first angle is <math>4x</math> degrees. The second angle is <math>(2x+6)</math> degrees. Determine the measure of each angle.</p> <p>Equation: _____</p> <p><math>x</math> : _____</p> <p><math>\angle</math> measures: _____</p>

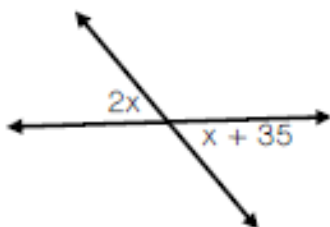
10.



Equation: \_\_\_\_\_

 $x$  : \_\_\_\_\_ $\angle$  measures: \_\_\_\_\_

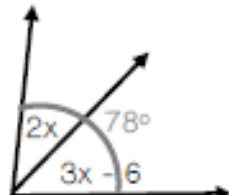
11.



Equation: \_\_\_\_\_

 $x$  : \_\_\_\_\_ $\angle$  measures: \_\_\_\_\_

12.



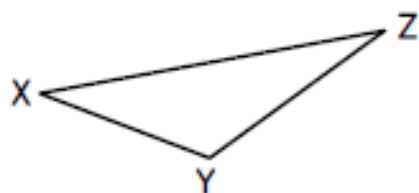
Equation: \_\_\_\_\_

 $x$  : \_\_\_\_\_ $\angle$  measures: \_\_\_\_\_

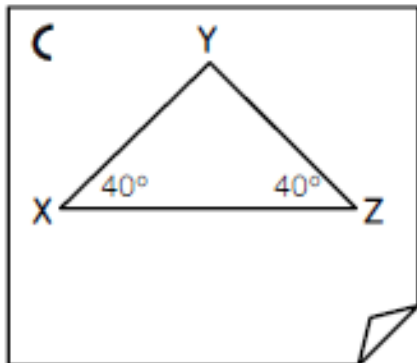
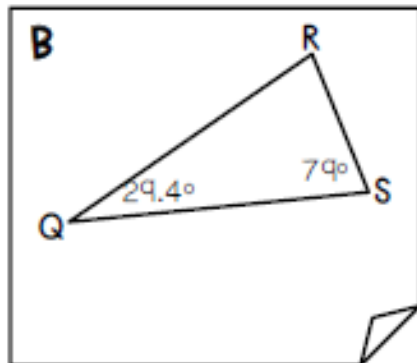
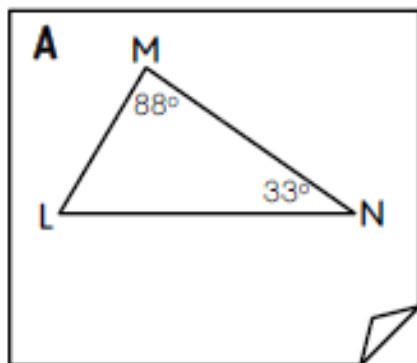
## I CAN APPLY KNOWLEDGE OF TRIANGLES.

13. Use the triangle at right to answer the questions.

- a. angle XYZ corresponds with side length \_\_\_\_\_
- b. angle ZXY corresponds with side length \_\_\_\_\_
- c. angle YZX corresponds with side length \_\_\_\_\_



14. Find the missing angle measure in each triangle below.

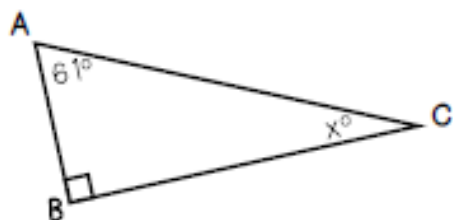


15. Which three lengths could be the lengths of the sides of a triangle?

- A. 12 cm, 5 cm, 17 cm      B. 10 cm, 15 cm, 24 cm
- C. 9 cm, 22 cm, 11 cm      D. 21 cm, 7 cm, 6 cm

### I CAN CLASSIFY TRIANGLES.

16. Determine the missing value,  $x$ . Then, classify the triangle by side and by angle measure.

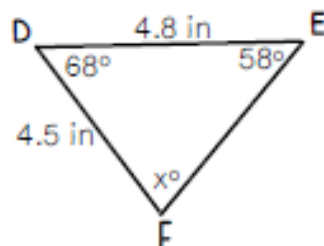


$x$ : \_\_\_\_\_

by side: \_\_\_\_\_

by angle measure: \_\_\_\_\_

17. Determine the missing value,  $x$ . Then, classify the triangle by side and by angle measure.

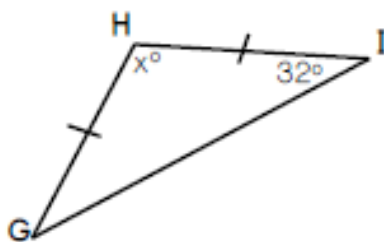


$x$ : \_\_\_\_\_

by side: \_\_\_\_\_

by angle measure: \_\_\_\_\_

18. Determine the missing value,  $x$ . Then, classify the triangle by side and by angle measure.

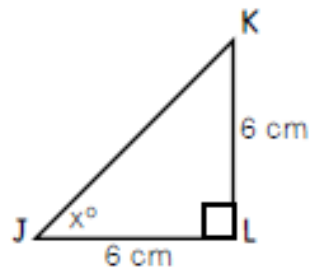


$x$ : \_\_\_\_\_

by side: \_\_\_\_\_

by angle measure: \_\_\_\_\_

19. Determine the missing value,  $x$ . Then, classify the triangle by side and by angle measure.



$x$ : \_\_\_\_\_

by side: \_\_\_\_\_

by angle measure: \_\_\_\_\_