

Name: _____

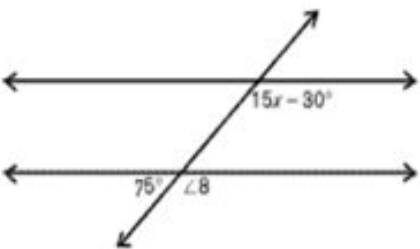
Homework – Monday (April 29, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

1. Esteban drew Triangle JKL on a coordinate plane, with J(-3, 5), K(-1, -4), and L(2, 4). Then he drew Triangle J'K'L', the result of the dilation $(x,y) \rightarrow (\frac{2}{3}x, \frac{2}{3}y)$. What are the coordinates of Point J?	2. Write your answer in scientific notation: $(4.5 \times 10^3) \times (3.2 \times 10^4)$
3. The Point (5, -2) is translated to the left 3 units. What are the new coordinates?	4. The vertices of a triangle are located at (-7, 8), (-6, 7), and (-5, 6). What will be the coordinates of the vertices after a reflection across the x-axis?

Homework- Tuesday (April 30, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

1. In a triangle XYZ, $\angle X = 37$, $\angle Y = 50$, and $\angle Z = 3x + 6$. a. What is the value of x? b. What is the measure of $\angle Z$?	2. Angles V and T are complementary angles. Angle T has a measure of $(2x + 5)$ degrees. Angle V has a measure of 25 degrees. What is the value of x?
3. The following diagram shows parallel lines cut by a transversal. What is the value of x? 	4. An unused roll of paper towels has a radius of 7.4 cm and a height of 14 cm. What is the volume of the unused roll? Round to the nearest tenth.

Homework - Wednesday (May 1, 2019)

Solve the following problems **without a calculator**. You **MUST** show your work. **NO WORK = NO CREDIT.**

<p>1. Compare the volume of a cylinder and a sphere if the sphere can fit inside the cylinder with a diameter of 30 ft.</p> <p>a. Volume of the cylinder</p> <p>b. Volume of the sphere</p>	<p>2. The diameter of a sphere is 6 cm. What is the volume of the sphere (in terms of pi).</p>
<p>3. The circumference of a circle is 190 meters. What is the approximate radius of the circle, rounded to the nearest meter?</p>	<p>4. The diameter of a cone-shaped paper cup is 8 centimeters, and the height is 10 centimeters. The radius of another cone-shaped paper cup is 3 centimeters, and the height is 11 centimeters.</p> <p>a. Find the volume of each paper cup to the nearest tenth of a cubic centimeter.</p> <p>b. Which cup holds more water?</p>

Homework - Thursday (May 2, 2019)

Solve the following problems **without a calculator**. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. The lengths of the legs of a right triangle are 7.5 inches and 10.0 inches. What is the length of the hypotenuse of this right triangle?</p>	<p>2. The vertices of a triangle are located at L(4, -3), M(1, -3), and N(1, 0). What is the approximate perimeter of triangle LMN?</p>
<p>3. Which of the sets of measurements represents the lengths of the sides of a right triangle?</p> <p>a. 10, 24, 26</p> <p>b. 5, 12, 34</p> <p>c. 12, 18, 30</p> <p>d. 1, 2, 9</p>	<p>4. A ship leaves port A and sails 12 kilometers west to port B. It then sails 19 kilometers north to point C.</p> <p>a. How far is the ship from port A?</p> <p>b. If the ship returns from port C to port A, how far did the ship travel?</p>