

**Monday**

1. Using the digits **1 to 9**, at most **one time each**, fill in the blanks to make two different pairs of fractions that have a product of  $\frac{2}{3}$ . Hint: think of fractions that are equivalent to  $\frac{2}{3}$ .

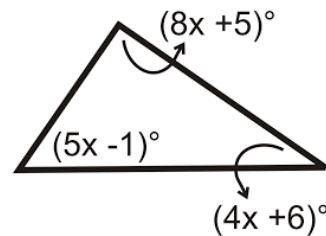
$$\frac{\square}{\square} \cdot \frac{\square}{\square} = \frac{2}{3}$$

$$\frac{\square}{\square} \cdot \frac{\square}{\square} = \frac{2}{3}$$

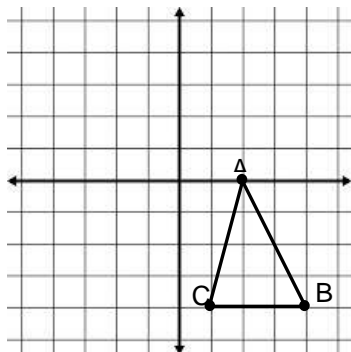
2. Your mom gave you \$55 to start a savings account. You save \$60 each month so you can buy a new laptop. If the laptop costs \$750 in how many months will you have enough money saved to buy it? Write an equation and solve it. Tell what your variable in the equation represents.

Let  $x =$  \_\_\_\_\_

3. Find the value of  $x$  and then find the measure of each angle of the triangle.



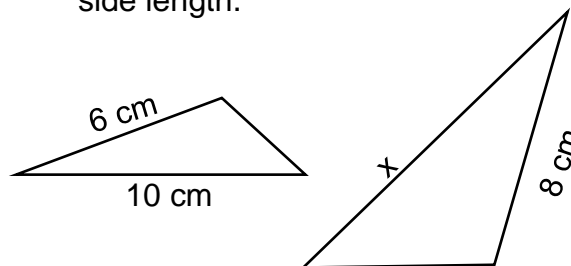
4. Reflect the figure over the  $y$ -axis then translate  $(x, y) \rightarrow (x + 3, y + 4)$



2<sup>nd</sup> Image Coordinates:

A'': ( , ) B'': ( , ) C'': ( , )

5. The triangles are similar. Find the missing side length.



**Tuesday:**

1. Simplify the expressions:

a.  $-3x^2 + 4y - x^2 + 7xy - 6y + 18 - xy$

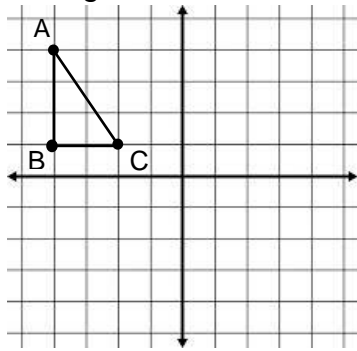
b.  $-(3x - 5y) + 3(-2x - 3y)$

2. Solve:

a.  $3x + 4 = \frac{1}{2}(4x + 20)$

b.  $5x + 3x + 4 = 4x - 3 + 4x$

3. Rotate the image  $180^\circ$  then reflect over x-axis,



2<sup>nd</sup> Image Coordinates:

A'': ( , ) B'': ( , ) C'': ( , )

5. Solve:

a.  $\frac{x}{6} - 7 = -5$

b.  $2x + 9 - 4x = -(2x - 3) - 4$

4. Using the digits 1 to 9, one time each, fill in the blanks to make a difference that is as close to 329 as possible.

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

How close did you get??

### Wednesday:

1. Find the circumference and area of a circle with a radius of 16 cm. Round to 2 decimal places:

Circumference: \_\_\_\_\_

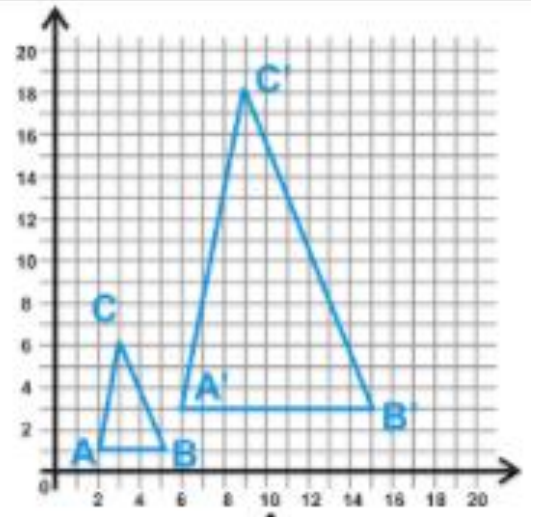
Area: \_\_\_\_\_

2. What is the scale factor of the dilation?  
Give an example of how you know.

Draw the triangle that dilates the original figure by a scale factor of 2.5 and write the second image coordinates below:

A'': ( , ) B'': ( , ) C'': ( , )

3. a.  $11\frac{1}{4} - 5\frac{1}{2}$       b.  $1\frac{3}{4} \cdot 2\frac{1}{6}$



4. A gym charges a registration fee of \$125 and then it costs \$45 per month. How many months can you join if you have \$1000? Write what the variable in your equation represents, write an equation and solve it.

Let x = \_\_\_\_\_

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

Solution: \_\_\_\_\_

5. Draw 2 parallel lines with a transversal. Number your angles 1 through 8.

Name a pair of the following angles:

a. vertical \_\_\_\_\_      b. corresponding \_\_\_\_\_

c. alternate interior \_\_\_\_\_

d. supplementary \_\_\_\_\_.