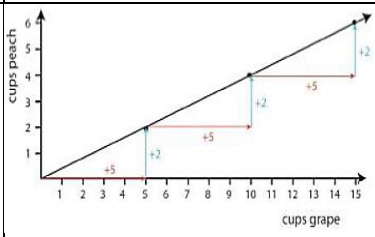
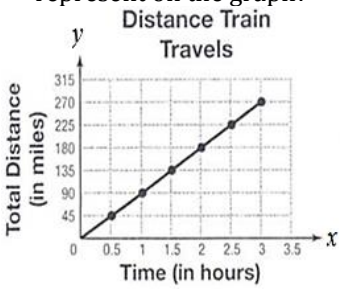
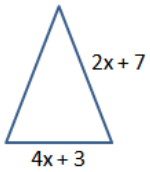
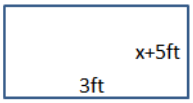
Name: ADVANCED DMR – Q2:8

Monday	Tuesday	Wednesday	Thursday
Solve: $2x + 8 - 22x = -2$	Solve: $-5\frac{3}{4} + 3h \leq 9\frac{1}{4}$	Which equation(s) represents a proportional relationship? A) y = 5 + x B) y = 4x C) $y = 7x^2$ D) y = 2 - x	Solve: $9 - 5x > -81$
John mixed 6 cups of blue paint with 8 cups of yellow paint to make green paint. To represent the relationship between the number of cups of blue paint, b, and the number of cups of yellow paint, y, needed to make the same shade of green paint, Hayden wrote the equation **b=□y.** What number should be placed in the box?	Which has the best unit rate?  16 oz for $3.30 64 oz for $8.60	A gallon of apple juice is $7. A pack of eight 4.23 oz box apple juice is $2.39. Which is a better deal?	Write the equation for the table below? (x) 0 7 14 21 (y) 0 1 2 3
At a currency exchange, 3 U.S. dollars can be exchanged for 5 Japanese Yin. How many Yin will you receive for 1 U.S. dollar? How many U.S. dollars will you receive for 1 Japanese Yin?	 How many cups of peach are there per 1 cup of grape? What is the equation for the line?	What does the point (1,90) represent on the graph? 	Tim earns $120 plus $30 for each lawn he mows. Write an inequality to represent how many lawns he needs to mow to make more than $310.
Which of these tables (if any) represent a proportional relationship? x 4 5 6 y 6 6 6 x 0 2 6 y 0 4 4	Maria works as a florist and worked 15 hours last week and earned $112.50. **A)**What is the equation showing the relationship between money earned and hours worked? **B)** How much will she earn if she works for 10 hours?	Which pair of ratios does not form a true proportion? A) 8:14 and 20:35 B) 6 to10 and 15 to 25 C) $\frac{9}{5} = \frac{27}{15}$ D) 12:15 and 30:50	A basketball team posts player foul shot ratios: • Jon made 18 of 19 • Jim got ⅝ in • Joe wrote $.\overline{94}$ Who was the better shooter?
Write an inequality for x that would give this isosceles triangle a perimeter of at least 137 ft. 	A child should no longer use a booster seat when they reach 4'9" tall. Janet is 59 inches tall. Can she go without a booster seat? Explain?	Cody has $700 in a savings account that pays 4% simple interest biannually. How much will he have in 1 year?	Write an inequality for x that would give this rectangle an area of at least 117 ft². 

Friday!

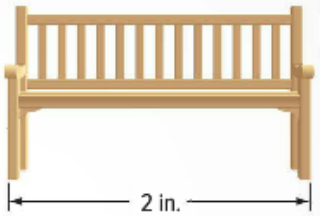
An amusement park line for passengers waiting to ride a rollercoaster is moving about 16 feet every 10 minutes. Jason and his friends are standing 40 feet from the front of the line. Select values to set up a proportion to represents this situation.

16	40
10	*x*

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Solve the proportion to determine how long it will take for Jason and his friends to reach the front of the line.

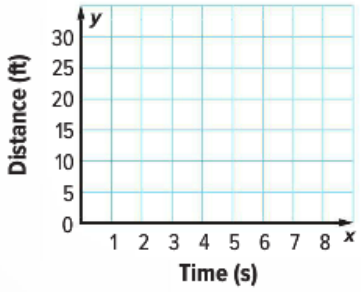
A landscape designer created a scale drawing of a bench that will be in a garden as shown. The actual width of the bench is 6 feet, and the actual height is 3 feet. Fill in each box to complete the following statements.



a. The scale of the drawing is ____ inch(es) = ____ feet.

b. The height of the scale drawing is ____ inch(es).

The ordered pairs (,) (3, 12), and (5, 20) represent the distance *y* that Jairo walks after *x* seconds. Plot the ordered pairs on the coordinate plane and draw a line through the points.



Find the constant of proportionality, and explain its meaning. Also, give the equation!

<u>Daily Math review Expectations</u>

1. Complete all problems each day.
2. Do your original work using a pencil at the beginning of class.
3. Make corrections using a pen, colored pencil, or marker during our whole class discussion.
4. If you are absent, you are still responsible for completing all of the problems.
5. Turn this in each Friday for a grade out of 23 points for accuracy.

Grade:_____/23