Name:_____ Date:_____ Hour:_____

L3-5b

Which Paint Mixture is Better?

1. Two friends are making colors to paint their playhouse. Jim uses 2 cups of red paint to 3 cups of yellow paint for his playhouse. George uses 4 cups of red to 5 cups of yellow paint for his playhouse. Complete the tables below. Then answer the following questions.

Jim's Mixture		
Red, x	Yellow, y	Ordered Pair (x, y)

George's Mixture		
Red, x	Yellow, y	Ordered Pair (x, y)

a) Which person uses more red for their playhouse when they have a total of 45 cups of paint made?

_____

b) Who uses more yellow when 45 cups of paint are made?

_____

L3-5b

c) Graph Jim's ordered pairs on the coordinate to the right using a blue color.

d) Graph George's ordered pairs on the coordinate to the right using a black color.

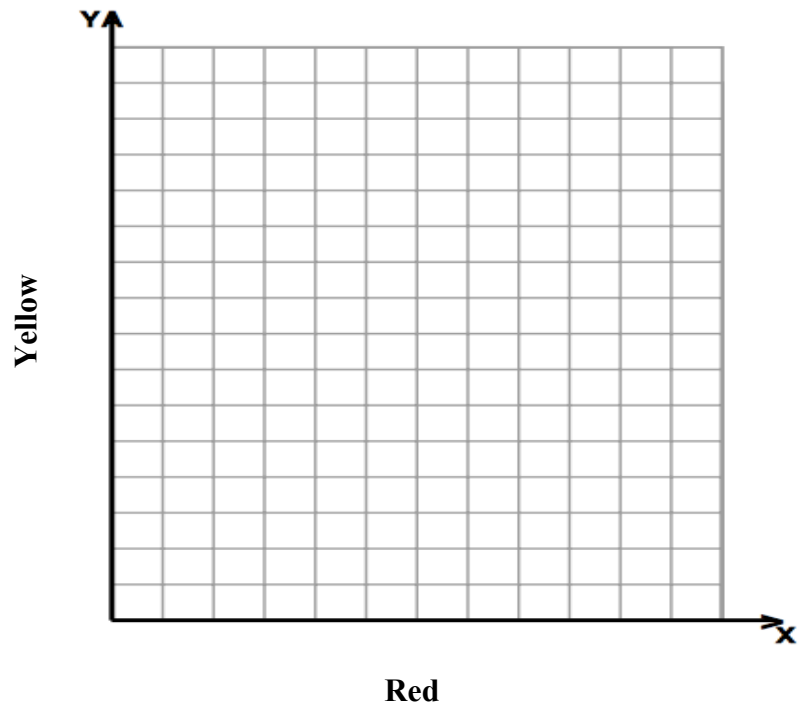e) What do you notice after graphing the two paint mixtures?

_____

_____

_____

_____

_____

Y

Yellow

Red

X

1. From the graph, determine how many cups of red paint Jim needs if he uses 12 cups of yellow paint.

2. From the graph, determine how many cups of yellow paint George needs if he uses 12 cups of red paint.

3. In your opinion, who has the better color of paint for their playhouse? Explain by using ratios why you chose the person's color playhouse.