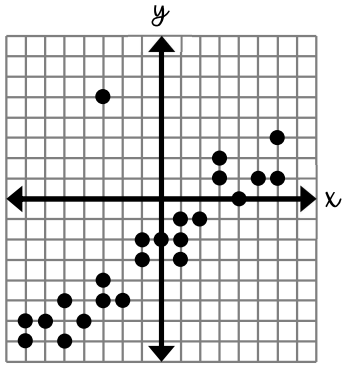
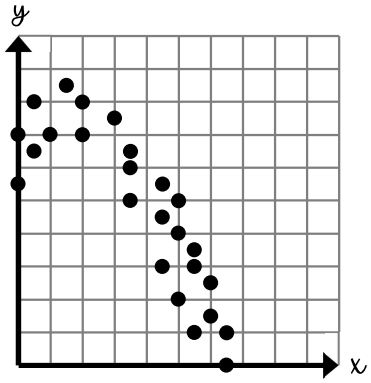
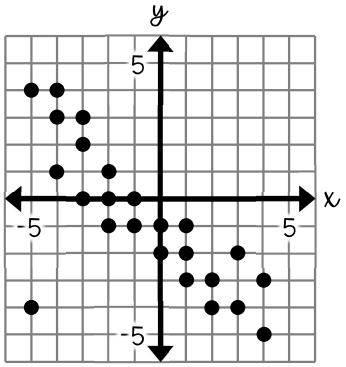
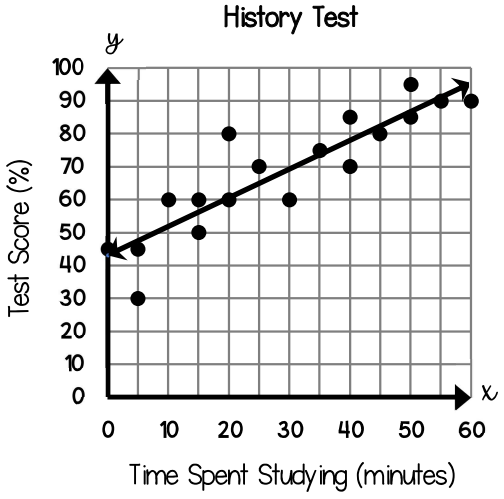
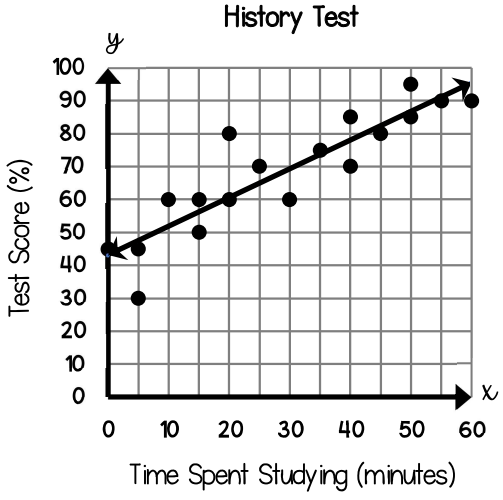
Scatter Plots Coloring Activity

Name: _____ Class: _____ Date: _____

Directions: Answer each question for the given scatter plot. Show your work or write an explanation to justify your answer in the provided space. Circle the correct answer. Use the color you circled to complete the corresponding coloring activity sheet.

#	1. Identify the association of the scatter plot shown below.			2. Identify the association of the scatter plot shown below.			3. Identify the outlier of the scatter plot shown below.		
Work/Explanation									
Answer	positive green	negative brown	none orange	linear gray	nonlinear blue	none purple	$(0,-1)$ pink	$(-5,-4)$ red	$(4,-5)$ yellow

#	4. Use the trend line to predict the score a student will likely earn on their History test if they spend 30 minutes studying.			5. Use the trend line to predict the amount of time a student should plan to study if their goal is to earn a score of 80% on their History test.		
Work						
Answer	5% red	60% blue	70% orange	35 minutes purple	45 minutes yellow	55 minutes pink

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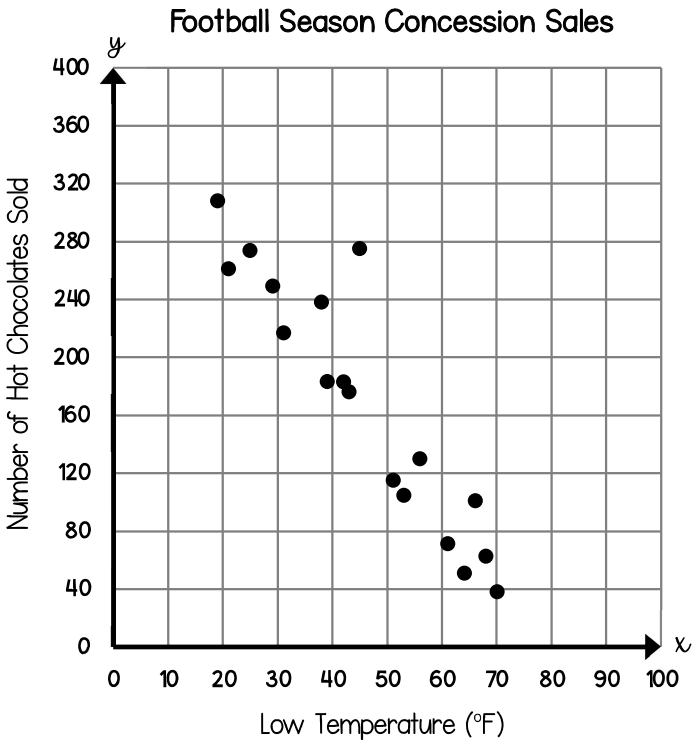
Scatter Plot	Problem & Work	Answer
The scatter plot below represents the outside low temperature in degrees Fahrenheit, x, and the number of hot chocolates sold, y, at a concession stand during football season.  	6. What does the y-intercept for the equation of the line of best fit represent in the context of the situation?	The temperature when 0 hot chocolates are sold. green The number of hot chocolates sold on a day with a low of 0°F. brown The change in the number of hot chocolates sold per degree. black
	7. What does the slope for the equation of the line of best fit represent in the context of the situation?	The temperature when 0 hot chocolates are sold. brown The number of hot chocolates sold on a day with a low of 0°F. yellow The change in the number of hot chocolates sold per degree. green

Problem	Work	Answer
8. Draw a line of best fit in the scatter plot above. What is the equation of the line of best fit?		$y = 10x + 360$ green $y = -5x + 380$ blue $y = -20x + 400$ white
9. Use the equation to determine how many hot chocolates they can expect to sell at the concession stand on a day with a low temperature of 45°F.		155 hot chocolates purple 125 hot chocolates red 275 hot chocolates orange
10. Use the equation to determine what the low temperature will likely be on a day where 100 hot chocolates are sold.		66°F pink 61°F orange 56°F yellow

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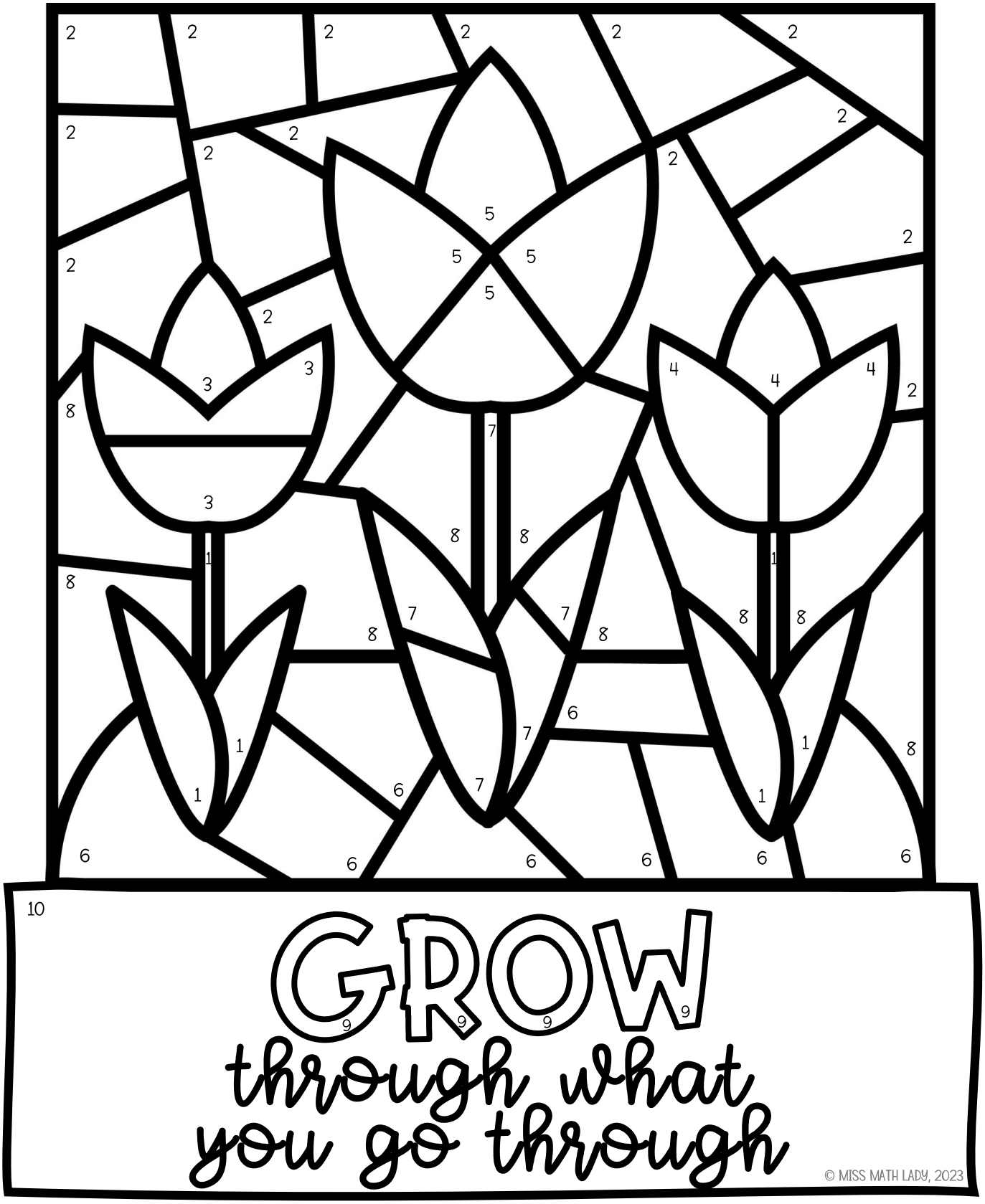

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By: _____