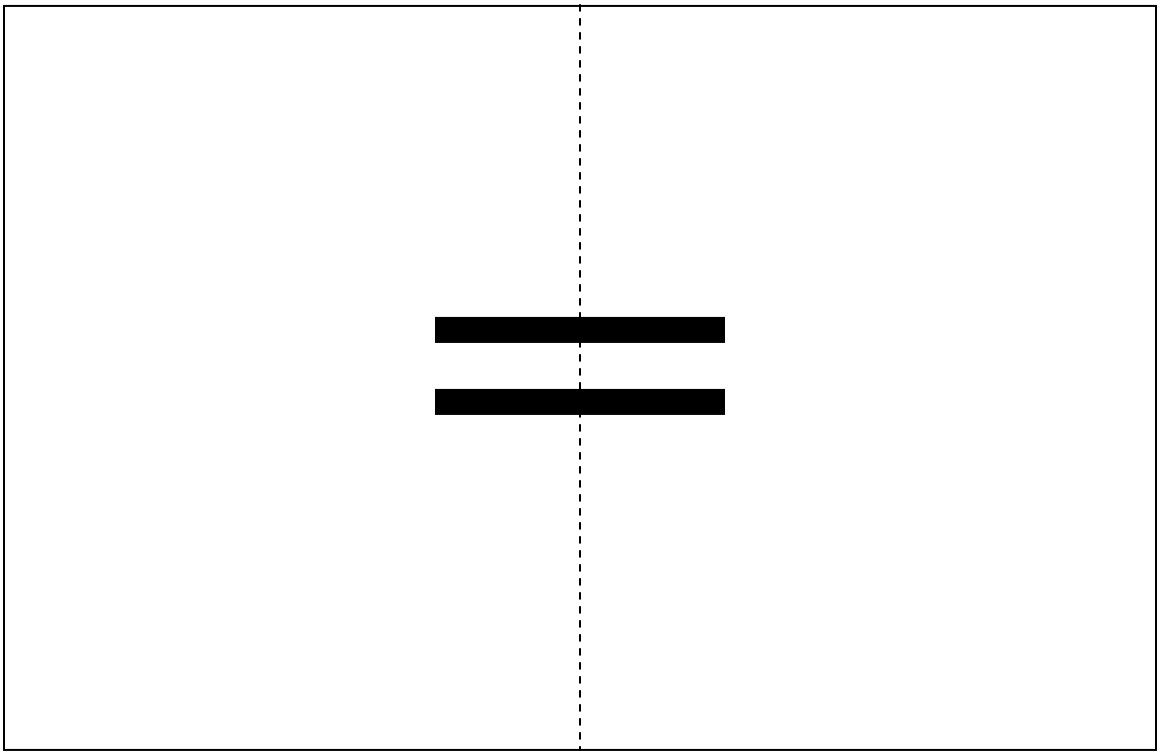
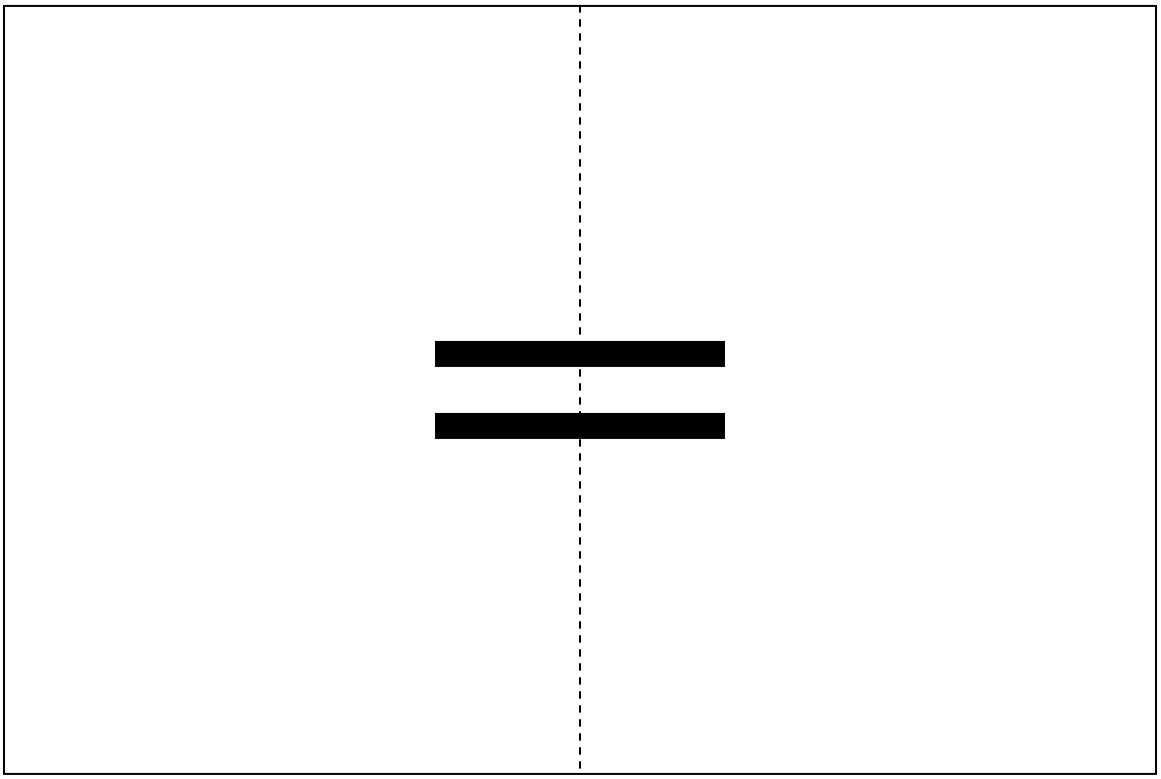
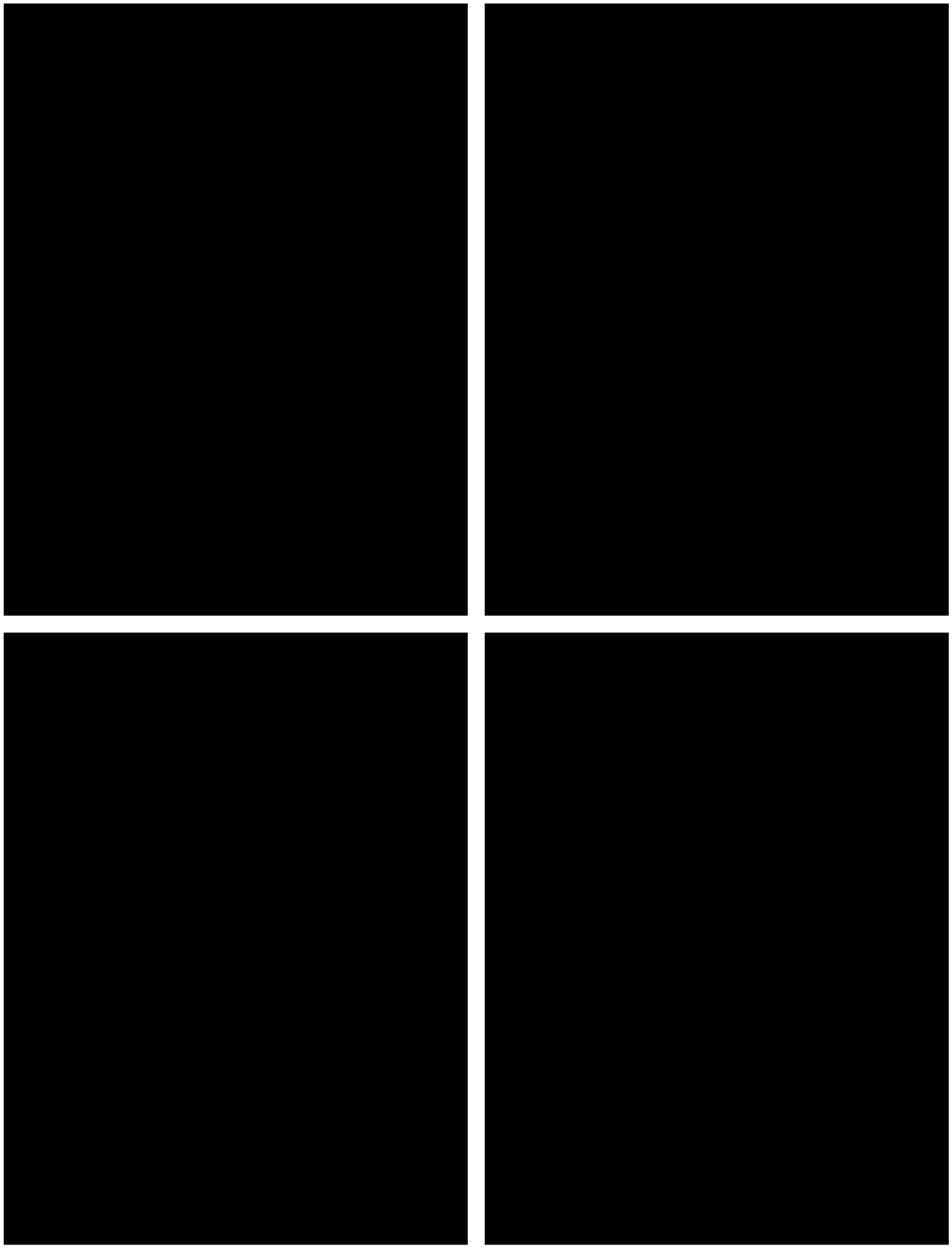
Name: _____ Date: _____







Initiate discussion	What is the problem about?	
	What is the question asking? What do you need to find?	
Focus on the content's message	How would you draw a picture of the problem?	
	What operation(s) would you use to solve this problem?	
	What parts of the content told you to use those operations?	
	What would be the equation for this problem?	
Link information	What would this problem look like with base-10 blocks?	
Identify problems with understanding	How would you solve the problem?	
	If dividing, what do you do with the remainder? How do you know what to do?	
	How do you know you are correct?	
	How would you answer the question using words?	

Initiate discussion	What are the changes from number to number?	
Focus on the content	Are the changes from number to number the same or different?	
	What operation(s) is being used?	
Link information	Do the changes from number to number have any patterns?	
	What number would extend the pattern?	
Identify problems	Is the change from your extended number to the last number the same as the previous changes?	
	Does the pattern make sense?	
	How can you explain the pattern clearly?	

Unit 4, Activity 9, Explain the Rule

Name: _____ Date: _____

Complete these tables and state the rule for the next number in the pattern.

2	**7**	**12**	**17**			

Rule: _____

78	**74**	**70**	**66**			

Rule: _____

12	**24**	**48**	**96**			

Rule: _____

CHALLENGE

62,500	**12,500**	**2,500**	**500**			

Rule: _____

A. If the numbers in the pattern increase, what operations have been used?

B. If the numbers in the pattern decrease, what operations have been used?

Unit 4, Activity 9, Explain the Rule with Answers

Name: _____ Date: _____

Complete these tables and state the rule for the next number in the sequence.

2	**7**	**12**	**17**	***22***	***27***	***32***

Rule: Add 5 (2 + *n* = 7 n = 5)

78	**74**	**70**	**66**	***62***	***58***	***54***

Rule: Subtract 4 (78 – *n* = 74 *n* = 4)

12	**24**	**48**	**96**	***192***	***384***	***768***

Rule: Multiply by 2 (12 x *n* = 24 *n* = 2)

CHALLENGE

62,500	**12,500**	**2500**	**500**	***100***	***20***	***4***

Rule: Divide by 5 (62,500 ÷ *n* = 12,500 *n* = 5)

A. If the numbers in the pattern increase, what operations have been used?

Addition or Multiplication

B. If the numbers in the pattern decrease, what operations have been used?

Subtraction or Division