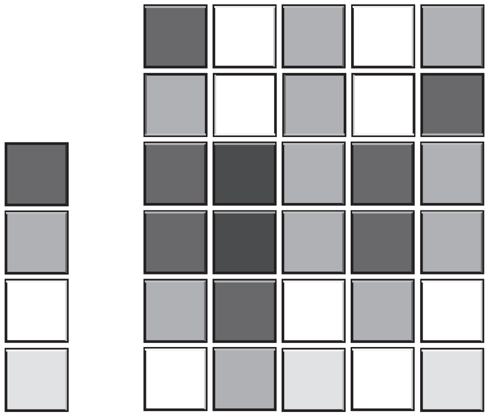
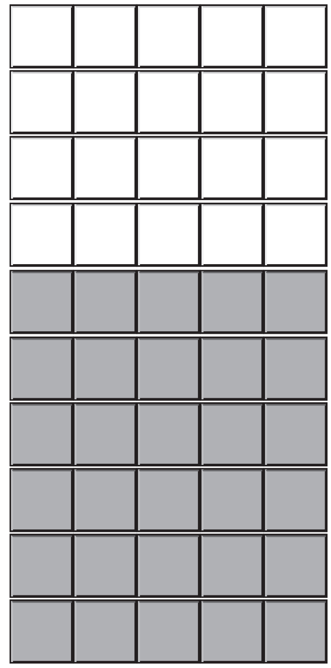
Name ______________________________

Use Color Tiles to model each expression. Write expressions for the models. Circle the model that shows 4 + (6 × 5) = 34.

1.





______________________ ______________

Using Color Tiles, model the expression using the Order of Operations. Sketch the model and write the answer.

2. 8 + 5 × 3

____

Use the Order of Operations to find each answer.

3. 6 + 4 × 3 ____________

4. 4 × 2 + 10 ____________

5. 9 × 2 ÷ 6 ____________

6. 7 × 5 – 10 ____________

7. 6 ÷ 2 + 4 ____________

8. 3 × 4 + 9 ____________

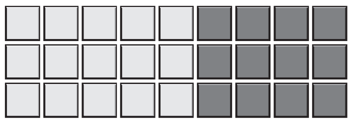
Name ___________________________________

Challenge! Write the sequence of the Order of Operations. Show an expression where the answer is different when you use the Order of Operations compared to working from left to right. Show an expression where the answer is the same when you use the Order of Operations and when you work left to right. Explain how the second expression works both ways.

Name ______________________________

Use Color Tiles to build the model. Evaluate the expression.

1. $3 \times (5 + 4) =$ ______



Using Color Tiles, model the expression. Sketch the model. Evaluate the expression.

2. $4 \times (6 + 3) =$ ______

3. $3 \times [8 - (4 + 2)] =$ ______

Evaluate each expression.

4. $2 \times (9 + 1) =$ ______

5. $8 \times (7 - 2) + 12 =$ ______

6. $8 + (3 \times 4) =$ ______

7. $3 \times [5 + (8 - 3)] =$ ______

8. $5 \times [8 - (9 - 4)] =$ ______

9. $4 + [12 - (4 + 2)] =$ ______

Name ________________________________

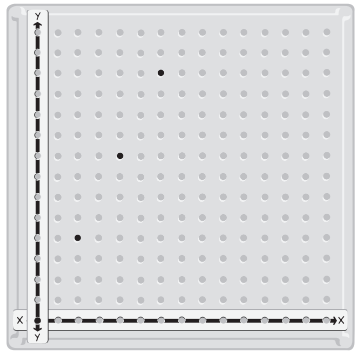
Challenge! Using one set of parentheses, make the expression $7 + 5 \times 3 + 8$ equal to 44.

Name ____________________

Complete the number pattern for *y*. Use an XY Coordinate Pegboard to plot the ordered pairs.

1.

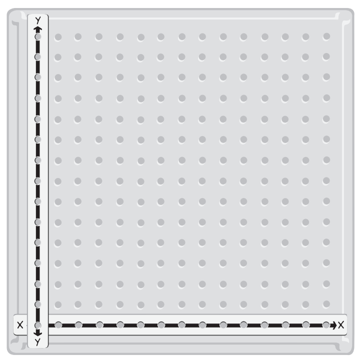
x "Add 2"	*y* "Add 4"
0	0
2	
4	
6	



Complete the number pattern for *y*. Use an XY Coordinate Pegboard to plot the ordered pairs. Sketch the graph.

2.

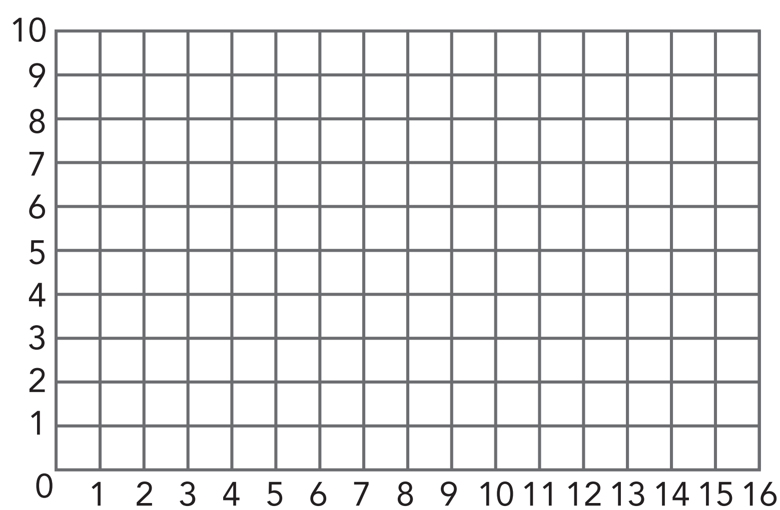
x "Add 1"	*y* "Add 2"
0	0
1	
2	
3	



Complete the number patterns for *x* and *y*. Graph the ordered pairs.

3.

x "Double"	*y* "Double – 1"
2	2



Name ___________________________________

Challenge! Starting with (1, 1), make an *x*-*y* function table using the patterns "double" for the *x*-coordinate and "double + 1" for the *y*-coordinate. Graph the ordered pairs in the work space below or on grid paper and describe the relationship between corresponding terms.