

LAB 3–A**PEBBLE MODEL 3**

Name _____

Partner _____

Date _____

Materials: Set of Algebra Tiles or similar pieces

Work with a partner. Record your pair's answers on your own lab sheet.

1. Pick out one each of the following tiles from your set of Algebra Tiles and complete the table below:

	Length in units	Width in units	Area in sq. units
a. Small square tile	1		
b. Long tile	x		
c. Big square tile			

2.
 - a. Describe how you would use tiles to represent -6 .
 - b. What is the minimum number of tiles you need to model -6 ? What is the maximum number? What do you notice in your models?
3.
 - a. Use tiles to model $3x$. Describe or draw your representation.
 - b. Can you model $3x$ using 5 tiles? Show the model.

3. c. Can you model $3x$ using 7 tiles? 8 tiles? Why or why not? Show your models.
4. a. Show a model for $3x + 2$.
- b. Show two more models for $3x + 2$. Write algebraic expressions that more accurately represent your two models. Are the two expressions equivalent to $3x + 2$? Why or why not?
5. Use tiles to show a model for twice the sum of $2x + (-1)$. What is the minimum number of tiles needed? Justify your answer.
6. What does it mean for two algebraic expressions to be equivalent? Explain by using tiles.