Foundations of Algebra Day 2: Evaluating Expressions	Unit 3: Arithmetic to Algebra Nan	ne:				Practice
Practice Assignment		0	25	50	75	100
1. Evaluate each of the following expressions:						
a. 35 – (17 – 2) ÷ 5	b. 24 − 9 · 2 + 6 ÷ 3	C.	12(2 -	+ 7) –	24 ÷ 1	12

f. $\frac{5(16-5)-1}{4^2-7}$

2. Describe the error in evaluating the expression when m = 8.

d. $4(9-3) \div (8-2)$ e. $26 - [(25-11) - 2^3]$

$$5m + 3 = 5 \cdot 8 + 3 = 5 \cdot 11 = 55$$

3. Evaluate the following expressions when a = 10, b = 9, and c = 4.

a. a² – 18 b. bc + 12.3 c. 3a + 2b – 6c

4. Given a = 8, b = -6, d = 3, x = -4, y = 0.5, evaluate the following:

a.
$$x^2 + 3d$$
 b. $y(a - 2)$ c. $d(x - b)$

6. The expression 20a + 13c is the cost for a adults and c students to enter the science museum.

a. Find the total cost for 4 adults and 24 students.

b. You figure out the cost for the group, but then the number of adults and students in the group both double. Does the cost double? Explain your answer using an example.

c. In part A, the number of adults doubles, but the number of students is cut in half. Does the cost remain the same? Explain why or why not.

7. Answer the following using the scenario:



You really want to purchase the skateboard shown at the left. Your aunt gives you \$45 to start and you save \$3 each week. The expression 45 + 3w gives the amount of money you save after w weeks. Answer the following:

a. How much will you have after 4 weeks? 10 weeks? 20 weeks?

b. What does the 45 represent in the expression? What does the 3w represent?

c. Challenge: After how many weeks will you have enough money? Show how you arrived at your answer.