ALGEBRAIC EXPRESSIONS QUIZ REVIEW

1. Write the following expressions using numbers, symbols and letters

- a) Four times the difference of a number and 7
- b) The product of 12 and a number, decreased by three
- c) The sum of three times a number and 8
- d) The sum of seven and a number then multiplied by seven
- e) A number multiplied by seven then decreased by 7
- f) Twice the difference of a number and 9, and the result increased by 4
- g) The product of a number and the difference of the number and six
- h) The sum of half a number and 10

2. Write the following expressions using words:

- a) 4n ÷ 3
- b) 3(p+2)
- c) 45/3n

4.

c) 3c + ab

d) 5 + 4 (n + 6)

3. Write an algebraic expression for each situation to find the cost.

a) You make \$10 an hour working at the CNE as a game host.	where
represents	
b) The bus fare for each student is \$5 plus a one-time fee of \$50	
where represents	
c) It costs \$2 per visit at the gym if you paid a \$30 membership fee	
where represents	
Evaluate the following statements if a = 2, b = 3, and c = 5. Show all your steps	
a) 2a + 3c ÷ 5 b) 3(c – a) + a	

- 5. Paul works at a hamburger stand. He earns \$15 pay per day plus \$2 for every combo he sells.
 - a. Write an algebraic expression for how much money Paul earns in a day
 - b. Use your expression to figure out how much money Paul will make if he sells 25 combos in a day?

d) $5/c + ac + a^2$

- c. What if he only sells 5 combos?
- 6. Erin has a balance of \$182.73 in her savings account. She makes a deposit of \$12.50 in her account each week.
 - a. Write an algebraic expression that represents the amount of money in Erin's savings account after *n* weeks.
 - b. Calculate how much money Erin will have in her account after eight weeks.