1-Unit 1 SSE.1 Introduction to Seeing Structure in Expressions Name:_____

1. Create a scenario that can be represented by the following expressions:
   a. $8 - 5$
   Jack had 8 grapes on his plate and ate 5.
   b. $8p - 5p$
   Ethan sold p packs of baseball cards at 8 dollars per pack. He paid 5 dollars per pack.

2. Define the following vocabulary in your own words:
   a. Variable: letter used to represent an unknown quantity
   b. Constant: number that is known and doesn't change.
   c. Coefficient: constant multiplier in front of a variable.
   d. Term: constant, variable, or product/quotient of
   e. Explain the difference(s) between expression and equation:
   equations contain an equal (=) sign

3. Label each part of the expression using the appropriate vocabulary word (use each vocabulary word once):

$$8p - 5p + 40$$

8 - coefficient
p - variable
5 - coefficient
40 - constant
8p, 5p, 40 - terms

4. Mr. Sacco went to Dunn Brothers this morning. A coffee costs $2.25 and a muffin costs $1.75. He also left a $3 tip. Determine what each piece means in context of the problem.

$$2.25c+1.75m+3$$

a. 2.25 cost of one coffee

b. m # of muffins bought

c. 1.75m total cost of muffins

d. 2.25c+1.75m total cost of coffee & muffins

e. 2.25c+1.75m+3 total cost with tip

5. Label the parts of the expression using your vocabulary words: Variable, Coefficient, Constant, and Term

a. 2.25 coefficient

b. m variable

c. 1.75m term

d. 2.25c+1.75m 2 term expression

e. 2.25c+1.75m+3 3 term expression

6. Is this an equation or an expression? How do you know?

expression... there is no equal sign.

7. I gave him $20 to get whatever he wants. How do I add that in?

$2.25c + 1.75m + 3 \leq 20$