Take a small white board, rag, and marker

What is the difference between these two terms?

Equation Must have an = sign Expression

Has no = sign

Write an expression that models each statement exactly as written.

1. Five less than a number.

nber. A - 5

B.6

2. The product of a number and six.

- 3. The sum of twelve and a number.  $l \downarrow \downarrow \downarrow \prec$
- 4. The difference of a number and three.

$$Q - 3$$

5. Eight times the quantity one plus a number.

# 8(1+Q)

#### Model each statement.

1. The boat can carry up to 8 passengers.

$$5 \leq 8$$

- 2. You need at least a 93 on the quiz to get an A.  $\mathcal{G} \ge \mathcal{Q} \ge \mathcal{G}$
- 3. The wheelbarrow can hold no more than 15 bricks.

4. The Federal minimum wage is \$7.25 per hour.  $M \geq 7.25$ 



How many terms are in this expression?

#### What is a term?

a number, a variable, or the product of a number and one or more variables. Terms in a variable expression are separated by Addition and Subtraction.

### What is a coefficient?

The # being multiplied by a variable. Usually found in front of the variable. Simplify.  $6w^2 - 4 + 5w - 3 + w^2 - 8w$ 

Like Terms: Terms with the same variable(s) with the same exponent(s)  $\label{eq:like}$ 

You combine like terms by adding and subtracting using the coefficients.

 $\frac{6w^2 + w^2}{7w^2 - 3w - 7} = -4 - 3 + 5w - 8w$   $(7w^2 - 3w - 7) = 5tandard Form$ 

 $\frac{7}{3}(w+y) - \frac{1}{3}(w+y)$ 

w + 634

+24

3w+3y-

Simplify.

Simplify: - $6a^{2}b + ab^{2} - 4b^{2}a + 7ab - 2a^{2}b - 5ab^{2}$ 

$$-\frac{6a^{2}b}{-8a^{2}b} + \frac{ab^{2}}{-8a^{2}b} - \frac{4b^{2}a}{-8a^{2}b^{2}} + \frac{7ab}{-8a^{2}b^{2}} + 7ab$$

$$= -8a^{2}b - 8a^{2}b^{2} + 7ab$$



You evaluate a variable expression by

Substituting values for each variable Then simplify the expression

## Evaluate this expression for C = 8 and D = -12

1. D<sup>2</sup> - 7CD

$$= (-12)^{2} - 7(8)(-12)$$
$$= 144 + (372 - 816)$$

You can now finish Hwk #3	Sec 1-2
Page 15	
Problems 3, 4, 8, 9, 12, 36, 44, 45, 50, 53	