Wednesday, August 29, 2012

TISK Problems:

- 1. If a scatter plot shows a strong negative correlation between weight (in pounds) and number of hours of TV watched per week, what recommendation might you make to someone who wanted to lose weight?
- 2. Find the constant difference of the sequence: 34, 4, 2, 4, 34, 164, ...
- 3. Multiply: $\frac{3}{16} \cdot \frac{4}{21}$

We will have 3 Mental Math questions today.

Please do not use the whiteboards until instructed to do so.

Homework: Worksheet 2.6

Homework Check

1)
$$5(t-7)$$

2)
$$12a - 18$$

3)
$$-24x + 96$$

4)
$$r(t + k)$$

$$5)$$
 $ab + aw$

6)
$$10t - 21$$

7)
$$x - 2z$$

$$8) -4a + 4b$$

9)
$$4x - 3y$$

10)
$$7a + 6b + 4c$$

$$(11) -m + 8n + 4p$$

12)
$$6x - 2a - 5$$

$$(13) -9b + 3 - 6z$$

$$(14) -c - d - y$$

$$(15)$$
 $-5a - 3c - 4$

Adding and Subtracting Expressions

- In order to add and subtract expressions, you add and subtract their *like terms*.
- What makes two terms *like* terms?
 - They have the same variable parts (with the same exponents)
 - For example:
 - 3x and 4x are like terms
 - 8*y* and 9*m* are NOT like terms
 - $5c^2$ and $7c^2$ are like terms
 - $6k^3$ and $9k^2$ are NOT like terms

Simplifying Expressions

- When you have like terms in an expression, you can simplify the expression by "combining like terms".
- To do so, you add the number parts of the like terms.
- Simplify the expression:

$$7x + 8y + 5 + 11x + 9$$

$$7x + 11x = 18$$

$$7x + 11x = 18x$$

$$-5 + (-9) = -14$$

$$18x + 8y - 14$$

Practice adding & subtracting expressions

- 6m 2m
 - □ 4*m*
- 4g + (8g 1)
 - -12g-1
- 6ab + 2 + 12ab 8
 - □ 18*ab* − 6
- 8y (4y 6)
 - -4y+6
- 7h + 9 (6h + 12)
 - h 3 or 1h 3

- 18x 2(3x 9) + 7
 - -12x + 25
- 8g 9z + (4g 10)
 - -12g 9z 10
- 6u (3 u) + 2
 - -7u-1
- 7v 8(-5v + 2) + 16
 - □ 47*v*
- 12e 9w + 2(4e + w)
 - □ 20*e* − 8*w*