Stations One: Conversions

When do you multiply when converting?

When do you divide when converting?

1) 22 cups is how many pints?	2) 50 L = _____mL
3) Jessica is 54 inches tall, how many feet tall is she?	4) 10 m is how many km?
5) How many kiloliters are 500 Liters?	6) How many cups are in 192 gallons?
7) 10 cm = _____m	8) Convert 28 meters in centimeters
9) How many feet are in 144 yards?	10) 34 pints=_____ quarts
11) Convert 28 gallons in quarts	12) There are how many cm in 3 m?

13) **How many DAYS will you spend in this class this semester? (assume each class is 90 minutes and there are 94 class days**

Station Two: Radicals

1) When adding/ subtracting radicals the number under the radical must be the same

2) When multiplying radicals the number under the radical must be the same

3) When multiplying radicals the numbers outside the radical are added together

4) When adding/subtracting radicals the numbers on the inside of the radical are added together

5) When adding/subtracting radicals the numbers on the outside of the radical are added together

For each of the following determine
   a) if it is an adding/subtracting problem or a multiplication problem (circle one)
   b) simplify the problem

6) $\sqrt{100x^2}$ (Simplify)(Multiply)(add/sub)	7) $-4\sqrt{120x^4}$ (Simplify)(Multiply)(add/sub)
8) $\sqrt{90} + \sqrt{40}$ (Simplify)(Multiply) (add/sub)	9) $5\sqrt{6} + \sqrt{6}$ (Simplify)(Multiply)(add/sub)
10) $-4\sqrt{6} \cdot \sqrt{6}$ (Simplify)(Multiply) (add/sub)	11) $4\sqrt{20} \cdot \sqrt{10}$ (Simplify)(Multiply) (add/sub)
12) $-3\sqrt{98x^4}$ (Simplify)(Multiply) (add/sub)	13) $\sqrt{45} + \sqrt{20}$ (Simplify)(Multiply) (add/sub)

Stations 3: Solving Equations- SHOW WORK

1) $7x - 28 = 8x - 14$

2) $7x - 5 = 8(x + 3)$

3) $3(5x + 4) - 20 = 13x - 4$

4) $-17 = 2x - 3$

5) $8x - 15x = -44 - 12$

6) $25 = -3(x - 7) - x$

7) $-6 + 8 + 4 = 2p - 3p + 3$

8) $-5(-6x + 5) = -85$

9) $4 - 4(1 - 6a) = 192$

10) $-5x - 20 = -(3x + 8)$

Station 4: Writing Expressions and Combining like terms

1. $6 + 4x + 2x + 3$	2. $-9m - 6 - 8m$
3. $x + 5 + 5x + 4$	4. $9 - 17y + 5 + 6y$
5. $-9n + n - 5 + 6$	6. $6x - 2 + 3x$
7. $-2d - 7 + 2 + 6d$	8. $x + x + 1$

9. The difference of a number and four	10. Twice a number increased by 16
11) 18 less than the product of four and a number is equal to twice the nujmber	12) The quotient of five and a number increased by four
13) The difference of 13 and a number	14) The sum of five and a number divided by two is 27
15) Gary makes six dollars less than twice what Mary makes. Write an expression that represents this.	