**Pre-Calculus 11 - Review**

Name:

Block:\_\_\_\_\_\_

***Fractions***

Simplify the following. Show all work.

1. $\frac{1}{5}+\frac{2}{7}$ 2. $\frac{\frac{2}{3}}{\frac{4}{5}}$ 3. $\frac{\frac{1}{2}-2}{3}$ 4. $\frac{\frac{1}{2}+5^{2}}{4\left(3\right)-3(\frac{2}{3})}$

***Order of Operations***

Evaluate the following expressions.

 1. $15-4∙2$ 2. $12÷\left(4-1\right)$ 3. $5\left(2-3\right)+9$ 4. $(9-2)^{2}-52$

 5. $\frac{15-4∙2}{12÷\left(4-1\right)}$ 6. $\frac{5\left(2-3\right)+9}{(9-2)^{2}-52}$

***Evaluating Algebraic Expressions***

Evaluate the following algebraic expressions for $x=2, y=-3 $and $z=3$.

1.  2. 

***Algebra***

Solve the following equations for the given variable.

1.  2.  3. 

 4. $12=\frac{2x}{3}$ 5. $\frac{5}{2}=4-\frac{x}{3}$ 6. $\frac{1-4}{(-2)^{2}}=\frac{2(x-1)}{3}$

***Greatest Common Factor***

Determine the greatest common factor of each set.

 1. $15, 40, 20$ 2. $-2x, 12xy,20x^{2} $ 3. $x^{3}y^{5}z^{8}, x^{3}yz^{6}$, $x^{4}z^{7}$