Grade 8 Math Homework February 12 -16, 2018

**Monday**

1. Circle the equations below

3x + 2 5t = 30 6x – 4 =32 $\frac{9a}{5}$ 14 = 7 + b v + 25

Explain the difference between an expression and an equation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. In the expression 5X + 11 identify:

The variable \_\_\_\_\_\_\_\_\_\_\_

The coefficient \_\_\_\_\_\_\_\_

The Constant \_\_\_\_\_\_\_\_\_

Solve this expression substituting x = 6. Show your work.

**Tuesday**

Solve the following equations by drawing algebra tiles. Clearly show your answer. Use yellow and red coloured pencils if you have them. Otherwise, negative is filled, positive is not. Complete on loose-leaf if you require more space.

1. 3b + 5 = 14 2. 4x = -16

3. 2x + 5 = -7 4. 13 – 2x = 5

Write the equation for the following situations:

I earn 10$ each hour I work \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I am 2 years older than my sister \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Each pizza topping costs $2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I run 5km each day \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Wednesday**

Use algebra to solve the following equations. Verify your answers.

1. 2x – 1 = 7 2. 3x – 6 = 12

3. -21 = 7x 4. $\frac{t}{-6}$ + 12 = 18

**Thursday**

Complete each table of values.

|  |  |
| --- | --- |
| X | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |

1. Y = 2x + 5 2. Y = 3x - 1

|  |  |
| --- | --- |
| X | Y |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

3. Y = $\frac{12}{x}$

|  |  |
| --- | --- |
| X | Y |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |