# Bell Work

Algebra 2A

# Day 1 - March 21, 2016

Solve and Simplify

1. $\frac{1}{6} + \frac{2}{3} =$
2. $\frac{3}{4} + \frac{3}{4} =$
3. $\frac{2}{5} \times \frac{1}{2} =$
4. $5 \times \frac{1}{5} =$
5. $(x^3)(x^2) =$
6. $(x^3)^2 =$
7. $2x^2 + 3x + 7x^2 + 4x =$

Day 2 - March 22, 2016

**What are at least 3 strategies for taking a Math test that will help you be successful?**

# Day 3 - March 23rd 2016

## Write the following as algebraic expressions

- Two times a number plus 5
- 3 less than a number
- The product of 3 and a number minus 7
- The quotient of 7 and the variable x plus 6
- The sum of 6 and the product of 5 and a number
- The difference of 5 and a number

# Day 4 - March 24th

**2/3 x 3/4 =**
**1/2 x 3/5 =**
**2/3 + 3/4 =**
**1/2 + 3/5 =**

# Day 5 - October 26

Solve the following equations

1) $3x + 2y = 7$ if $x = 3$
2) $5x + 3y = 10$ if $x = 5$
3) $\frac{1}{2}x = 2y - 4$ if $x = 8$

# Day 10 - April 5th - 2016

**Are the following sequences Arithmetic or Sequential, and what is their 7th term?**

1) **2, 4, 8, 12, …**

2) **2, 4, 6, 8, ...**

# Day 11 - April 6th 2016

## Write the following as algebraic expressions

- Two times a number plus 5
- 3 less than a number
- The product of 3 and a number minus 7
- The quotient of 7 and the variable x plus 6
- The sum of 6 and the product of 5 and a number
- The difference of 5 and a number

# Day 13 - April 11th

Evaluate the following fractions

1. $\frac{2}{5} + \frac{1}{2} =$
2. $\frac{3}{4} + \frac{2}{3} =$
3. $\frac{1}{2} + \frac{1}{3} =$
4. $\frac{1}{2} + \frac{5}{6} =$

# Day 14 - April 12th

Are the following Geometric or Arithmetic and What is the Common Ratio or Common Difference?

1. 3, 6, 12, 24, …

2. 1, 5, 9, 13, ...

# Day 15 - April 13th

Do the following Systems of Equations have One Solution, No Solutions or an Infinite number of Solutions?

1. $-3x + 4y = 3$
   $-12x + 16y = 8$

2. $-16x - 20y = 12$
   $-8x - 10y = 6$

# Day 16 - April 14th

What are some “real life” examples of a parabola?

# Day 17 - April 18th

Solve the following system of equations?

$-4x - 2y = -12$

$4x + 8y = -24$

# Day 18 - April 19th 2016

**Vertex form of a Quadratic equation is $f(x) = a(x - h)^2 + k$**

**What do the following constants represent?**

**a - _____**

**h - _____**

**k - _____**

# Day 20 - April 21st

Factor

1. $X^2 + 4x - 5$
2. $2x^2 + 13x + 15$

# Day 21 - April  25

Solve the following equations

1. X + 3 = 0
2. X - 7 = 0
3. 2x + 3 = 0
4. 3x - 3 = 0

# Day 22 - April 26th

**Solve the following equation for it's zeros using factoring:**

$$4x^{2+16x + 15 = 0}$$

# Day 23 - April 27th

**Solve the following using the quadratic equation:**

**$2x^2 - x - 4 = 0$**

# Day 24 - April 28th

Find the square root of the following.  Do NOT use a calculator or put in decimal form.

1. $\sqrt{25}$
2. $\sqrt{4}$
3. $\sqrt{36}$
4. $\sqrt{16}$
5. $\sqrt{8}$

# November 2nd

For the following polynomials, put them in:

- Standard Form
- Tell what degree the polynomial is, and
- Tell how many terms the polynomial has

1. $8 - x^5 + 9x^2 - 2x$
2. $6x + 2x^4 - 2$
3. $-6x^3$

# November 3rd

No Bell work - Pass out Chromebooks instead

# November 4th

Write 2x + 3y = 6 in Slope-Intercept form and graph.

# November 5th

Find the rate of change for a parabola that has the following two points.

(4, 3)

(3, 1)

# November 9th

No Bell Work - Reviewing for test

# November 10th

No Bell Work - Unit Test

# November 11th

Veterans Day - Not School!!

# November 12th

Simplify:

1. $(2x^2)(3x^2) =$
2. $(2x^2)^3 =$

# November 16

Simplify the following radicals

1. Square Root of 4
2. Square root of 64
3. Square root of 8
4. Cube root of 8

# November 17

Write out the formula for the vertex form of a Parabola

# November 18

Simplify

1. Cube root of $27x^3$
2. $8^{⅓}$
3. Square root of 20 plus square root of 24 plus square root of 45

# November 19

Find the Average Rate of Change over the interval [1,2] for the following equation:

$y = 3x^2$

# November 24th