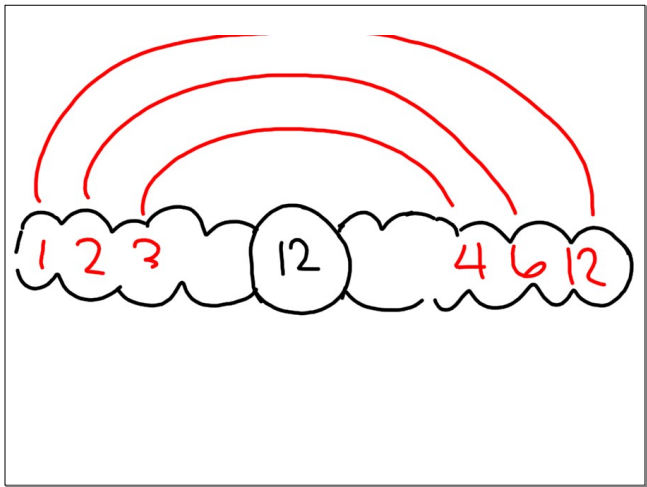


Grab a rainbow sheet

Aug 25-3:33 PM

- Aug 26-Math 3H
- Calculator Check
 - Rainbow Factors
 - Calendar Math
 - Homework Questions 1.1 Polynomials
 - 1.2 Factoring GCF and Trinomials

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Aug 25-3:34 PM

September Calendar Math
Transformations pg. 3-4

Square Root: \sqrt{x} point of origin $(0,0)$

Teapot

Aug 25-3:43 PM

Cube Root: $\sqrt[3]{x}$ point of origin $(0,0)$

egyptian

Aug 26-2:53 PM

Piece-wise: $f(x) \begin{cases} x+2 & x < -2 \\ -2x+5 & -2 \leq x \leq 0 \\ x & x > 0 \end{cases}$

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Step $f(x) = \text{Int } x$ greatest integer function

Steps

Aug 26-2:54 PM

Homework Questions... #23 24; 36

GCF: 12

$24 = 2 \cdot 2 \cdot 3 \cdot 2$
 $36 = 3 \cdot 3 \cdot 2 \cdot 2$
 $3 \cdot 2 \cdot 2$ $3 \cdot 4 = 12$

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#24 20; 48

$20 = 2 \cdot 2 \cdot 5$
 $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$
 $2 \cdot 2 = 4$

Aug 29-10:00 AM

1.2 Factoring Day 1 GCF

GCF (Greatest Common Factor)-

The biggest number or term they have in common. GCF must be in every term to factor.

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ex 6; 12; 24;

$6 = 3 \cdot 2$
 $12 = 3 \cdot 2 \cdot 2$
 $24 = 2 \cdot 3 \cdot 2 \cdot 2$
 GCF: 6

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ex 1) 45; 81; 117

$45 = 3 \cdot 3 \cdot 5$
 $81 = 3 \cdot 3 \cdot 3 \cdot 3$
 $117 = 3 \cdot 3 \cdot 13$
 GCF: 9

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ex 2) $24x^3, 56x^7, 4x^8, 12x^2$
 $24x^3: 2 \cdot 3 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x$
 $56x^7: 7 \cdot 2 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x \cdot x \cdot x$
 $4x^8: 2 \cdot 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$
 $12x^2: 3 \cdot 2 \cdot x \cdot x$
 GCF: $4x^2$

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#8 $y^2 - 2y$ $y(y - 2)$
 $y^2: y \cdot y$
 $-2y: -2 \cdot y$
 GCF: y

Aug 29-10:28 AM

#5 $-a^4b^4 + 8a^3b^7 + 2a^2b^5$
 $-a^4b^4: 1 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b$
 $8a^3b^7: 8 \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b \cdot b \cdot b$
 $-2a^2b^5: 2 \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b \cdot b$
 every term $a \cdot a = a^2$ $b \cdot b \cdot b \cdot b = b^4$
 GCF: a^2b^4
 $-a^2b^4(a^2 - 8ab^3 + 2b)$

Aug 29-10:31 AM

ex 7) $7x^5 + 12y^2 - 19d^3$
 $7x^5: 7 \cdot x \cdot x \cdot x \cdot x \cdot x$
 $12y^2: 3 \cdot 2 \cdot 2 \cdot y \cdot y$
 $-19d^3: -1 \cdot 19 \cdot d \cdot d \cdot d$
 GCF: NO GCF

Aug 29-10:40 AM

Homework
 #1 $p^2 - 3p$
 $p^2: p \cdot p$
 $-3p: -3 \cdot p$
 GCF: p $p(p - 3)$

Aug 25-4:28 PM

#12 $5x^4 + 5x^2$
 $5x^4: 5 \cdot 1 \cdot x \cdot x \cdot x \cdot x$
 $5x^2: 5 \cdot 1 \cdot x \cdot x$
 GCF: $5x^2$
 $5x^2(1x^2 + 1)$
 $5x^2(x^2 + 1)$

Aug 29-10:46 AM

$$\begin{array}{l} \#3 \quad v^2 - v \\ \quad \quad v^2 : v \cdot (v) \\ \quad \quad -v : -1 \cdot (v) \\ \text{GCF} : v \\ \quad \quad v(v - 1) \end{array}$$

Aug 29-10:50 AM