

Content and Language Objective:

Students will use what they learned about Greatest Common Factors and apply it to situations involving variables and numbers.

Warm - Up

Find the GCF of the following terms.

1. 240 and 360

120

24: 1, 2, 3, 4, 6, 8, 12, 24

36: 1, 2, 3, 4, 6, 9, 12, 18, 36

2. 18 and 99

9

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The other day we looked at situations that only involved numbers.

What would you do if we included variables into the situation?

$15x^2y$ and $60xy$

$$\begin{array}{cc} x^2y & xy \\ x \cdot \cancel{x} \cdot \cancel{y} & \cancel{x} \cdot \cancel{y} \end{array}$$

15: 1, 3, 5, (5)

60: 1, 2, 3, 4, 5, 6, 10, 12, (15), 20, 30, 60

15xy

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$24x^2y^3$ and $54xy^2$

$24: 1, 2, 3, 4, 6, 8, 12, 24$

$54: 1, 2, 3, 6, 9, 18, 27, 54$

$6xy^2$ -

x^2y^3

$x \cdot x \cdot y \cdot y \cdot y$

xy^2

$x \cdot y \cdot y$

$(a+b)^2$ and $(a+b)^5$

$(a+b)(a+b)$

$(a+b)(a+b)(a+b)(a+b)(a+b)$

$(a+b)^2$