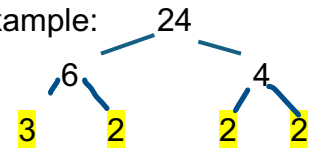
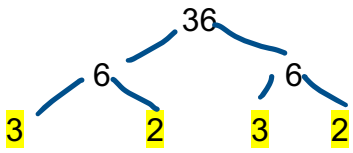
Math Ch 2.9 Short Line
October 16, 2025
GCF and Order of Operations

1. Use a factor tree to write a prime phrase. Then, find the greatest common factor for each set of numbers:

Example:




24 = 2 x 2 x 2 x 3

36 = 2 x 2 x 3 x 3

GCF (24, 36) = 2 x 2 x 3

= 12

a. 45, 54, 42
b. 120, 72, 84
c) 85, 75, 60
d) 144, 48, 120
e) 100, 48, 75
f) 200, 300, 400

2. Lawrence wants to **split up** two crates of apples, one with 30 apples and another with 25 apples, into **smaller** baskets. She wants each basket to have the same number of apples and wants to have the largest possible number of apples in each basket. How many apples should be in each basket? How many baskets will she need? **Draw a picture to start**.

3. Copy the following questions. Underline the operation you do first. Do the operations in the correct order. (Multiplication and Division, then Addition and Subtraction.)

a. 4 + 3 x 2
b. 8 – 3 x 2
c. 10 x 3 – 12
d) 4 x 7 + 3
e) 9 – 7 + 6
f) 8 – 3 x 7
g) 14 – 6 x 10
h) 8 + 3 x 5
i) 10 + 2 x 12