

Name: \_\_\_\_\_

Ms. Napolitano

Date: \_\_\_\_\_

Activity #: \_\_\_\_\_

### Day 3 of Activity 2.1

**Topic:** Greatest Common Factor

**EQ:** How can you find and use the greatest common factor of two whole numbers?

I can find and use the greatest common factor (GCF) of two whole numbers.

**CCSS:** 6.NS.4

## HOMWORK

### 1) Who's the GREATEST?

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**Greatest:** \_\_\_\_\_

**Common:** \_\_\_\_\_

**Factor:** \_\_\_\_\_

**Greatest Common Factor:** \_\_\_\_\_

### 2) What's the GCF of 12 and 30?

Method 1 (list the factors using a venn-diagram):

Method 2 (factor trees):

3) Jack has 3 pieces of rope with lengths of 25 inches, 60 inches, and 100 inches. He wants to cut them into pieces of the same size (with no remainders). What is the greatest possible length of the smallest pieces of rope?

**Practice:**

Find the GCF using the Distributive Property.

7)  $20 + 27$

8)  $28 + 42$

9)  $18 + 24$

11) There are 16 cellos, 24 violas, and 32 violins playing in an orchestra concert. Mr. Johnson wants them to sit in rows, and he wants each section to have the same number of rows. What is the greatest number of rows the orchestra would have?

12) There are 6 cellos, 12 violas, and 21 violins playing in an orchestra concert. Mr. Johnson wants them to sit in rows, and he wants each section to have the same number of rows. What is the greatest number of rows the orchestra would have?

13) The cafeteria is making identical fruit baskets. They have 35 apples, 21 bananas, and 28 oranges. They want each basket to have the same numbers of each type of fruit. What is the greatest number of baskets they can make?

14) Ms. Peltier has 42 inches of purple ribbon, 36 inches of green ribbon, and 18 inches of red ribbon. She needs to cut the ribbon into even pieces for an art project and doesn't want to have any left over. What is the greatest length of ribbon pieces that she could use?