

Name: \_\_\_\_\_  
Ms. Napolitano

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

Topic: Greatest Common Factor

## Homework W7 Day 4

Find the greatest common factor (GCF) of 40 and 50.

### Different Ways to Find the GCF

**Way 1:** List all the factors of each number.

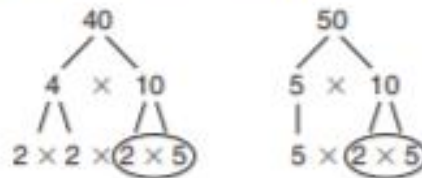
Circle the numbers that are the same in both sets. Then identify the greatest of these common factors.

40: 1, 2, 4, 5, 8, 10, 20, 40

50: 1, 2, 5, 10, 25, 50

The GCF of 40 and 50 is 10.

**Way 2:** Use factor trees to find the prime factorization of each number. Identify the prime factors the numbers have in common. Find the product of these common prime factors.



The common prime factors of 40 and 50 are 2 and 5.

So, the GCF of 40 and 50 is  $2 \times 5$ , or 10.

List the factors of each number. Then find the greatest common factor (GCF) of the numbers.

1. 4, 10

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. 12, 14

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. 6, 21

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. 7, 9

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Write the prime factorization of each number. Then find the greatest common factor (GCF) of the numbers.

5. 40, 48

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. 16, 20

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. 15, 60

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. 75, 100

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Find the greatest common factor.**

**Form A**

**1** 24 and 20: \_\_\_\_\_

**2** 36 and 42: \_\_\_\_\_

**3** 16 and 32: \_\_\_\_\_

**4** 12 and 8: \_\_\_\_\_

**5** 80 and 70: \_\_\_\_\_

**6** 50 and 14: \_\_\_\_\_

**7** 100 and 75: \_\_\_\_\_

**8** 15 and 18: \_\_\_\_\_

**9** 14 and 21: \_\_\_\_\_

**10** 40 and 60: \_\_\_\_\_

**11** 25 and 45: \_\_\_\_\_

**12** 33 and 77: \_\_\_\_\_

**13** 36 and 81: \_\_\_\_\_

**14** 64 and 40: \_\_\_\_\_

**15** 35 and 28: \_\_\_\_\_

**16** 17 and 34: \_\_\_\_\_

**17** 15 and 28: \_\_\_\_\_

**18** 3 and 69: \_\_\_\_\_

**19** 18 and 28: \_\_\_\_\_

**20** 27 and 63: \_\_\_\_\_

**21** 20 and 45: \_\_\_\_\_

**22** 54 and 24: \_\_\_\_\_

**23** 18 and 45: \_\_\_\_\_

**24** 72 and 64: \_\_\_\_\_