

Name: _____

Factors and Factor Pairs

When you list *factors* of a number, you list each factor only once.

When I list all the **factors** of **16**, I write: **1, 2, 4, 8, 16**. I am listing all the numbers that divide into 16 exactly with no remainder. I list the factors in order from smallest to largest. I do **not** write 4 twice.

When you list *factor pairs* of a number, you list pairs of factors that give that number as a product when multiplied together.

When I list all the **factor pairs** of **16**, I write: **(1, 16) (2, 8) (4, 4)**.

1. List all the factors of 25:

List all the factor pairs for 25:

2. List all the factors of 36:

List all the factor pairs of 36:

3. How many factors does the number 9 have? _____

4. Which number (*other than 1*) is a factor of *both* 9 and 15?

5. What is the greatest common factor of 24 and 32 (the greatest factor that they have in common)?