

Name: _____ Hour: _____ Date: _____

NOTES: Factor Review

Goals: #1 – I can list factors of a number.

#2 – I can write the prime factorization of a number.



#3 – I can list all the common factors of the pair of numbers.

Homework: Factor Review Worksheet

Exploration #1: Work with a partner.

1. How many ways can you multiply to 42 by using only *two* numbers?

2. How many ways can you multiply to 17 by using only *two* numbers?

Notes:

_____ are numbers that are multiplied together to get a product.

Examples:

A _____ is a number that has exactly two factors: 1 and itself.

Examples:

Example #1:

1. List all the factors of the following numbers.
 - a. 36
 - b. 27

2. List all the *common factors* of the pair of numbers.
 - a. 5, 20
 - b. 12, 30

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Exploration #2: Work with a partner.

1. How could you multiply to 42 by using only *prime* numbers?

Notes:

A _____ of a number is rewritten as a product of only prime numbers. We use a method called _____ to find prime factorizations.

Examples:

Example #2:

1. Write the prime factorization for the following numbers.
 - a. 32
 - b. 315