

NOTES: Multiples Review

Goals: #1 - I can find multiples of a number.



#2 - I can explain the difference between factors and multiples.

Homework: Factors and Multiples Puzzle

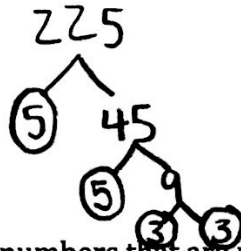
Warm Up:

1. List all the common factors of 20 and 55.

20: 1, 2, 4, 5, 10, 20
 55: 1, 5, 11, 55

1, 5

2. Write the prime factorization of 225.



$5 \times 5 \times 3 \times 3$
 OR
 $5^2 \times 3^2$

Review:

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

Example: List all the factors of 36.

1, 2, 3, 4, 6, 9, 12, 18, 36

Exploration #1: Work with a partner.

1. If pens came in packs of 5 pens, how many pens could you possibly buy? List ~~all~~ ^{ten} the possibilities.

5, 10, 15, 20, 25, 30, 35, ...

Notes:

Multiples are numbers that are products of a given number and another number. * Count bys

Examples:

Multiples of 5: 5, 10, 15, 20, 25, 30, 35, ...

Name: _____ Hour: _____ Date: _____

Example #1: Work with a partner and fill out the chart below.

Number	Factors	Multiples (4)
12	1, 2, 3, 4, 6, 12	12, 24, 36, 48, 60
35	1, 5, 7, 35	35, 70, 105, 140
18	1, 2, 3, 6, 9, 18	18, 36, 54, 72, 90
100	1, 2, 4, 5, 10, 20, 25, 50, 100	100, 200, 300, 400
23	1, 23	23, 46, 69, 92, 115

FACTORS AND MULTIPLES ARE NOT THE SAME THING!