

Factors

Factors: What are they?
Why are they important?

Factors: a number multiplied by another number to find a PRODUCT



Factors

list of factors

* Factor Tables

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

Factor Tree

1, 2, 3, 4, 6, 12

write factors

only one and

least to greatest

Rainbow *

1, 2, 3, 4, 6, 12

STANDARDS + MATHEMATICAL PRACTICES

- we will generate number patterns that follow a rule using factors and multiples that express regularity in repeated reasoning.
- we will look for and make use of structures to define prime and composite numbers.

Multiples, Patterns and such 4th

How about Multiple??

Multiple: a multiple of a number is a PRODUCT of that number by any other whole number

Looks like

7: $7 \times 1 = 7, 7 \times 2 = 14, 7 \times 3 = 21, 7 \times 4 = 28, \dots$

6: $6 \times 1 = 6, 6 \times 2 = 12, 6 \times 3 = 18, 6 \times 4 = 24, \dots$

Common multiples

2 or more products that have the same multiple(s)

2: 2, 4, 6, 8, 10, 12, ...

3: 3, 6, 9, 12, 15, ...

The common multiples for 2 and 3 are 6 and 12.

What we know...

Inquiry Factors + Multiples

what we want to learn...

Prime Numbers? Composite Numbers?

Prime Number: a product with one and itself as the ONLY FACTORS

Composite Number: a product with more than one and itself as FACTORS

