Important facts to know

Factors and Multiples: a focus on multiplication

Order of Operations

P E M D A S
( ) ÷ ⋅ + −
4 ⋅ 3 + 2 − 1
8

Example:
(3x2) + 4 = X
6 + 4
10 = X

Dante collected 16 YuGiOh cards each day for 20 days. How many more cards did Dante collect than Aaron?

Factors:
Cards collected by Dante: 16 ⋅ 20 = 320
Cards collected by Aaron: 21 ⋅ 18 = 378

So, Dante had 58 more cards than Aaron.

Factors
Factors are numbers that are multiplied to find a product.

Multiples
Multiples are a product of two factors.

Multiplication Methods:
- Lattice: traditional
- Place value: 20 ⋅ 30 = 20 ⋅ 3 tens
- Associative property: 20 ⋅ 30 = 20 ⋅ (3 ⋅ 10)

Common Multiples

Standard Mathematical Practices
- We will solve multi-step word problems using operations to find the unknown (variable) and explain our thinking using viable arguments and critique each others reasoning.
- We will generate number patterns that follow a rule using factors and multiples that express regularity in repeated reasoning.

Inquiry: What do we want to know?