3rd Grade Unit 3:
Relating Multiplication to Division

Overview:

In this unit, students will learn that multiplication and division are inverse operations that can be used to solve problems involving equal groups, arrays, and area measurements. Students discover that numbers of objects can be divided by partitioning them into equal shares (partitive) and by grouping them into groups of a known size (quotative).

Learning Targets:

In Unit 3, students will:
- use multiple strategies and representations to model division expressions
- relate multiplication to division.
- use place value understanding to multiply single digit factors by multiples of 10.
- solve multiplication and division problems with unknown factors in all positions.
- gain fluency with multiplication and division facts
- Integrate contexts involving mass and liquid volume

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Array	Associative Property	Bar Model	Column	Commutative Property
Distributive Property	Equal Groups	Equation	Expression	Factor
Identity Property	Multiple	Product	Repeated Addition	Row
Scale	Tape Diagram	Zero Property	Pictograph	Bar Graph
Liquid Volume	Mass	Ounce	Pound	Cup

Supporting Resources:

http://ctlslearn.cobbk12.org/

https://gavirtual.instructure.com/courses/34724#modules

1.3: Multiplication and Division of Whole Numbers - Mathematics LibreTexts

Relate Multiplication to Division – Study Jams

https://www.geogebra.org/m/av6psbf7#material/Jvtgbdv8

https://www.multiplication.com/games/division-games

MATHEMATICS