Unit 4 - Multiply with One-Digit Numbers

Content Area: **Mathematics**
Course(s):
Time Period: **November**
Length: **3-4 weeks**
Status: **Published**

Unit Overview

Unit 4 connects with the theme of Let's Go Shopping!, which centers around products, events, and items that can be found in a mall. Students will the different aspects of multiplication, and that all multiplication is based on place value.

Essential Questions

"How can I communicate multiplication?"

Content

Multiples of 10, 100, and 1,000

Round to Estimate Products

Hands On: Use Place Value to Multiply

Hands On: Use Models to Multiply

Multiply by a Two-Digit Number

Hands On: Model Regrouping

The Distributive Property

Multiply with Regrouping

Multiply by a Multi-Digit Number

Problem-Solving
Investigation: Estimate or Exact Answer

Multiply Across Zeros

Skills

Multiply multiples of 10, 100, and 1,000 using basic facts and patterns.

Estimate products by rounding.

Explore multiplication using models.

Explore multiplication using area models and partial products.

Multiply a two-digit number by a one-digit number.

Explore multiplication with regrouping using models.

Use the Distributive Property to make multiplication easier.

Multiply a two-digit number by a one-digit number.

Multiply a multi-digit number by a one-digit number.

Determine if a problem needs an estimate or exact answer.

Multiply multi-digit numbers with zeros by a one-digit number.

Assessments

Online Readiness Quiz

Vocabulary Check

Concept Check - Check My Progress

Chapter Test

Teacher Observation

Lessons/Learning Scenarios

MyMath Grade 4

Chapter 4: Lessons 1-11

Standards

CCSS.Math.Content.4.OA.A.3	Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
CCSS.Math.Content.4.NBT.A.1	Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.

| CCSS.Math.Content.4.NBT.A.3 | Use place value understanding to round multi-digit whole numbers to any place. |
| CCSS.Math.Content.4.NBT.B.5 | Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |

Resources

MyMath Grade 4: McGraw-Hill (2012)

- grid paper
- construction paper
- scissors
- tape
- graph paper
- base-ten blocks
- sticky notes
- paper
- markers or highlighters