

Learning Targets

Arithmetic in Base Ten

Lesson 1: Using Decimals in a Shopping Context

- I can use decimals to make estimates and calculations about money.

Lesson 2: Using Diagrams to Represent Addition and Subtraction

- I can use diagrams to represent and reason about addition and subtraction of decimals.
- I can use place value to explain addition and subtraction of decimals.
- I can use vertical calculations to represent and reason about addition and subtraction of decimals.

Lesson 3: Adding and Subtracting Decimals with Few Non-Zero Digits

- I can tell whether writing or removing a zero in a decimal will change its value.
- I know how to solve subtraction problems with decimals that require “unbundling” or “decomposing.”

Lesson 4: Adding and Subtracting Decimals with Many Non-Zero Digits

- I can solve problems that involve addition and subtraction of decimals.

Lesson 5: Decimal Points in Products

- I can use place value and fractions to reason about multiplication of decimals.

Lesson 6: Methods for Multiplying Decimals

- I can use area diagrams to represent and reason about multiplication of decimals.
- I know and can explain more than one way to multiply decimals using fractions and place value.

Lesson 7: Using Diagrams to Represent Multiplication

- I can use area diagrams and partial products to represent and find products of decimals.

Lesson 8: Calculating Products of Decimals

- I can describe and apply a method for multiplying decimals.
- I know how to use a product of whole numbers to find a product of decimals.

Lesson 9: Using the Partial Quotients Method

- I can use the partial quotients method to find a quotient of two whole numbers when the quotient is a whole number.

Lesson 10: Using Long Division

- I can use long division to find a quotient of two whole numbers when the quotient is a whole number.

Lesson 11: Dividing Numbers that Result in Decimals

- I can use long division to find the quotient of two whole numbers when the quotient is not a whole number.

Lesson 12: Dividing Decimals by Whole Numbers

- I can divide a decimal by a whole number.
- I can explain the division of a decimal by a whole number in terms of equal-sized groups.
- I know how multiplying both the dividend and the divisor by the same factor affects the quotient.

Lesson 13: Dividing Decimals by Decimals

- I can explain how multiplying dividend and divisor by the same power of 10 can help me find a quotient of two decimals.
- I can find the quotient of two decimals.

Lesson 14: Using Operations on Decimals to Solve Problems

- I can use addition, subtraction, multiplication, and division on decimals to solve problems.

Lesson 15: Making and Measuring Boxes

- I can use the four operations on decimals to find surface areas and reason about real-world problems.