NAME

Module 7	Ratio, Proportion, and Percent
Lesson 3	Decimal and Percent Equivalents

Lesson Notes 7.3

Lesson Objectives

- Convert proper fractions to decimals and percents.
- Convert mixed numbers and improper fractions to decimals and percents.

Subtopic 1 Decimal and Percent Equivalents for Proper Fractions

Proper Fraction

- Numerator is less than **denominator**.
- Value is less than <u>one</u> whole unit.
- Has a **decimal** and **percent** equivalent.

To change a fraction to a decimal, <u>divide</u> the denominator into the numerator.

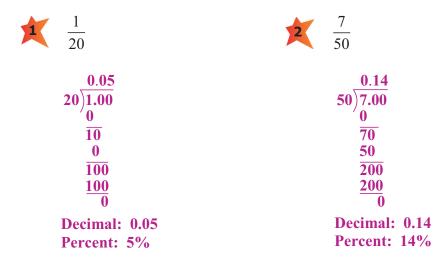
When a larger number divides a <u>smaller</u> number, the quotient has a decimal value less than 1.

Find the decimal equivalent.

- Place the <u>decimal point</u> in the quotient directly above the decimal point in the dividend.
- Divide as with **whole** numbers.

The decimal points are two places apart in a decimal and its equivalent percent.

Find the decimal and percent equivalents.



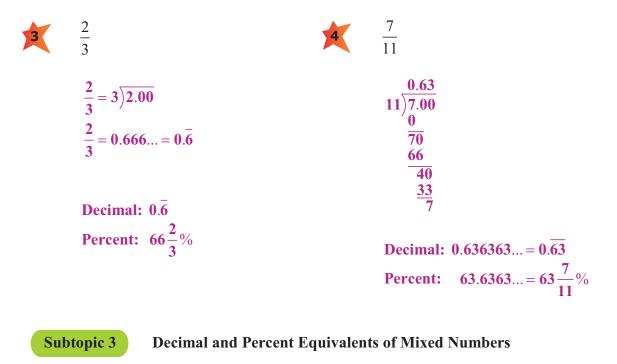
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Subtopic 2

Decimal and Percent Equivalents for Repeating Decimals

A repeating decimal is a decimal in which a **<u>pattern</u>** of one or more digits is repeated indefinitely.

Find the decimal and percent equivalents.



Find the decimal and percent equivalents of $5\frac{3}{4}$.

5 + 0.75

Decimal: 5.75 Percent: 575%