

NAME \_\_\_\_\_

**Module 4 Fractions, Decimals, Percents, and Factors**  
**Lesson 2 Concepts of Decimal Place Value and Fraction and Percent Equivalents**

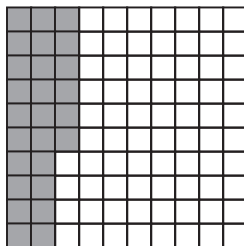
### Lesson Objectives

- Develop understanding of *decimal place value* using models.
- Identify decimal and percent equivalents for benchmark fractions.
- Identify decimal and percent equivalents for *proper fractions* and explain why they represent the same value.
- Identify decimal and percent equivalents for *mixed numbers* and explain why they represent the same value.

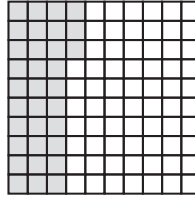
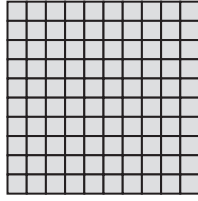
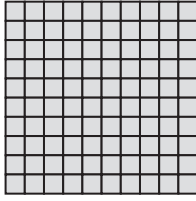
### Subtopic 1 Decimal Place Value and Fraction Equivalents

- A \_\_\_\_\_ is a number with a decimal point in it.
- The \_\_\_\_\_ separates the integer part from the decimal part.
- The value of the decimal part is \_\_\_\_\_.
- The first decimal place after the decimal point shows \_\_\_\_\_.
- The second decimal place after the decimal point shows \_\_\_\_\_.
- A \_\_\_\_\_ is an integer and a fraction.

**1** Name the decimal shown by the shaded region.



- 2 Name the decimal and fraction shown by the shaded region.



### Subtopic 2 Changing Decimals to Fractions and Fractions to Decimals

When two numbers represent the same quantity, the numbers are \_\_\_\_\_.

- 3 Find the decimal equivalent of  $\frac{3}{4}$ .

- 4 Find the decimal equivalent of  $\frac{1}{5}$ .

### Subtopic 3: Changing a Fraction to a Percent

Percent means “\_\_\_\_\_.”

- 5 Find the percent equivalent of  $\frac{57}{100}$ .

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★ **6** Find the percent equivalent of  $\frac{3}{4}$ .

★ **7** Find the percent equivalent of  $\frac{4}{5}$ .

**Subtopic 4 Benchmark Fractions and Fraction Equivalents**

- Benchmark equivalents:

$$\frac{1}{4} = 0.25 = \quad \% \quad \frac{3}{4} = \quad = 75\% \quad = 0.5 = 50\%$$

- Every fraction can be expressed as an \_\_\_\_\_ decimal and an \_\_\_\_\_ percent because they represent the same quantity.

★ **8** Give the fraction and percent equivalents of 0.6.

★ **9** Give the fraction and decimal equivalents of 40%.