4.1

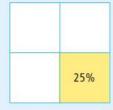
Literacy 🗟 Link

Ascending order means from least to greatest.

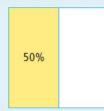
Descending order means from greatest to least.

Key Ideas

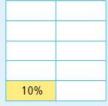
- · A visual model can help you solve problems involving percents.
- Every percent has an equivalent decimal and fraction value.



25% is 0.25 or $\frac{1}{4}$



50% is 0.50 or $\frac{1}{2}$



10% is 0.10 or $\frac{1}{10}$



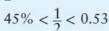






 You can use place value or a number line to compare fractions, decimals, and percents.

 $\frac{1}{2}$ is between 45% and 0.53.







4.2

terminating decimal

- a decimal number in which the digits stop
- examples include 0.4, 0.86, 0.125

Key Ideas

 To change a fraction to a decimal number, divide the numerator by the denominator.

$$\frac{3}{8} = 3 \div 8$$

= 0.375

 Repeating decimal numbers can be written using a bar notation.

$$\frac{1}{3} = 0.333...$$

= $0.\overline{3}$

 To express a terminating decimal number as a fraction, use place value to determine the denominator.

$$0.9 = \frac{9}{10}$$

$$0.59 = \frac{59}{100}$$

$$1.463 = \frac{1463}{1000}$$

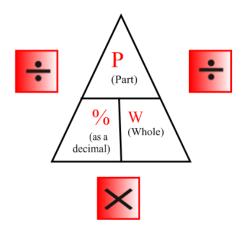
You can use mental math to estimate percents.

4.3

Key Ideas

- Decimal numbers and percents are often easier to compare than fractions.
- When you round a decimal value, the number becomes approximate.
 Fractions are exact numbers.

Percent Formulas



$$\frac{\%}{100} = \frac{\text{Part (is)}}{\text{Whole (of)}}$$

- 1. Multiply the 2 diagonal numbers
- 2. Divide by the 3rd number