

# 4 Fractions, Decimals, and Percents

4.1 Percents and Fractions

4.2 Percents and Decimals

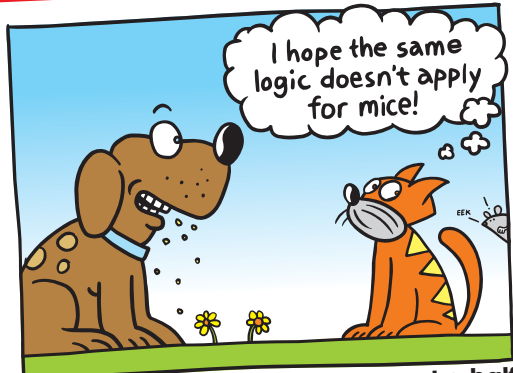
4.3 Comparing and Ordering Fractions, Decimals, and Percents

4.4 Finding the Percent of a Number

4.5 Percents and Estimation



"At 4 a day, I have chewed 17,536 dog biscuits. At only 99.9% pure, that means that..."



"I have swallowed seventeen and a half contaminated dog biscuits during the past twelve years."



"It says 75% tomatoes, 15% sugar, 5% vinegar, 4% water, and 1% salt."



"See... no cats in catsup."

# What You Learned Before



## Naming Decimals

### Example 1

- a. Write 0.251 in words.       $\therefore$  Two hundred fifty-one thousandths  
b. Write *twenty-five thousandths* as a decimal.       $\therefore$  0.025

### Try It Yourself

Write the decimal in words.

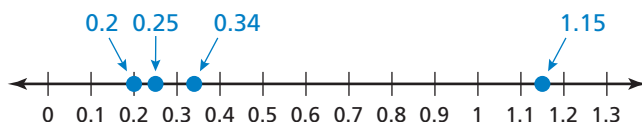
1. 0.0201                      2. 0.7                              3. 0.00008                      4. 1.023

Write the number as a decimal.

5. One hundred two ten thousandths      6. Six hundred seventy-six thousandths

## Ordering Decimals

**Example 2** Use a number line to order 0.25, 1.15, 0.2, and 0.34 from least to greatest.



### Try It Yourself

Use a number line to order the numbers from least to greatest.

7. 0.01, 0.42, 0.2, 0.5                              8. 1.05, 0.95, 0.75, 1.01

## Writing Decimals and Fractions

**Example 3** Write 0.21 as a fraction.      **Example 4** Write  $\frac{6}{25}$  as a decimal.

$$0.21 = \frac{21}{100}$$

$$\frac{6}{25} = 25 \overline{)6} = 0.24$$

### Try It Yourself

Write the decimal as a fraction or the fraction as a decimal.

9. 0.41                      10. 0.521                      11.  $\frac{9}{10}$                       12.  $\frac{5}{8}$