

## Lesson 1

**Decimals and Fractions****Guided Practice**

Write each decimal as a fraction or mixed number in simplest form. (Examples 1–4)

1.  $0.4 =$

2.  $0.64 =$

3.  $2.75 =$

Write each fraction or mixed number as a decimal. (Examples 5 and 6)

4.  $\frac{27}{75} =$

5.  $\frac{7}{2} =$

6.  $3\frac{1}{5} =$

7. Mr. Ravenhead's car averages 23.75 miles per gallon of gasoline. Express this amount as a mixed number in simplest form. (Example 4)

8. **STEM** The Siberian tiger can grow up to  $10\frac{4}{5}$  feet long. Express this length as a decimal. (Example 6)

**Independent Practice**

Write each decimal as a fraction in simplest form. (Examples 1–4)

1.  $0.5 =$

2.  $0.7 =$

3.  $0.33 =$

4.  $0.875 =$



Write each fraction or mixed number as a decimal. (Examples 5 and 6)

5.  $\frac{77}{200} =$

6.  $\frac{1}{20} =$

7.  $\frac{12}{75} =$

8.  $8\frac{21}{40} =$

**9. STEM** Mercury orbits the Sun in  $87\frac{24}{25}$  Earth days. Venus orbits the Sun in  $224\frac{7}{10}$  Earth days, and Mars orbits the Sun in  $686\frac{49}{50}$  days. Write each mixed number as a decimal. (Example 6)

**10. STEM** Last week, a share of stock gained a total of 1.64 points. Express this gain as a fraction in simplest form. (Example 4)

**11. CCSS Use Math Tools** The table shows the ingredients in an Italian sandwich.

Ingredient	Amount (lb)
meat	0.35
vegetables	0.15
secret sauce	0.05
bread	0.05

- a. What fraction of a pound is each ingredient?
- b. How much more meat is in the sandwich than vegetables? Write the amount as a fraction in simplest form.
- c. What is the total weight of the Italian sandwich? Write the amount as a fraction in simplest form.



## Standardized Test Practice

**12.** Which of the following statements is *not* true?

(A)  $0.6 = \frac{3}{5}$

(C)  $2.015 = 2\frac{1}{100}$

(B)  $0.125 = \frac{1}{8}$

(D)  $10.38 = 10\frac{19}{50}$