

# Relate Fractions and Decimals



You can write a decimal as a fraction. Think of place value. Then simplify the fraction if necessary.

Write 0.12 as a fraction.

Think: 12 hundredths

Write:  $\frac{12}{100}$

Simplify:  $\frac{12}{100} = \frac{12 \div 4}{100 \div 4} = \frac{3}{25}$     So,  $0.12 = \frac{3}{25}$ .

You can write a fraction as a decimal. Think of the fraction as a division problem.

Write  $\frac{3}{5}$  as a decimal.

Think: 3 divided by 5

Write:  $5 \overline{)3.0}$     So,  $\frac{3}{5} = 0.6$ .

Write each decimal as a fraction in simplest form.

1. 0.65

Think: 65 \_\_\_\_\_

Write:  $\frac{65}{100}$

Simplify:  $\frac{65}{100} = \frac{65 \div 5}{100 \div 5} = \frac{13}{20}$

2. 0.6

Think: \_\_\_\_\_

Write:  $\frac{6}{10}$

Simplify:  $\frac{6}{10} = \frac{6 \div 2}{10 \div 2} = \frac{3}{5}$

3. 0.86 \_\_\_\_\_

4. 0.57 \_\_\_\_\_

5. 0.5 \_\_\_\_\_

6. 0.68 \_\_\_\_\_

7. 0.25 \_\_\_\_\_

8. 0.15 \_\_\_\_\_

9. 0.40 \_\_\_\_\_

10. 0.9 \_\_\_\_\_

Write each fraction as a decimal.

11.  $\frac{2}{25}$

Think: 2 divided by \_\_\_\_\_

Write:  $\overline{)2.00}$

12.  $\frac{7}{10}$

Think: \_\_\_\_\_ divided by \_\_\_\_\_

Write:  $\overline{)7.0}$

13.  $\frac{11}{25}$  \_\_\_\_\_

14.  $\frac{31}{100}$  \_\_\_\_\_

15.  $\frac{19}{20}$  \_\_\_\_\_

16.  $\frac{3}{4}$  \_\_\_\_\_

17.  $\frac{3}{10}$  \_\_\_\_\_

18.  $\frac{29}{50}$  \_\_\_\_\_

19.  $\frac{4}{5}$  \_\_\_\_\_

20.  $\frac{5}{8}$  \_\_\_\_\_