

Lesson 1 Reteach

Decimals and Fractions

Decimals like 0.58, 0.12, and 0.08 can be written as fractions.

To write a decimal as a fraction, you can follow these steps.

1. Identify the place value of the last decimal place.
2. Write the decimal as a fraction using the place value as the denominator, and simplify.

Example 1

Write 0.5 as a fraction in simplest form.

$$0.5 = \frac{5}{10}$$

0.5 means five tenths.

$$= \frac{\cancel{5}^1}{\cancel{10}_2}$$

Simplify. Divide the numerator and denominator by the GCF, 5.

$$= \frac{1}{2}$$

So, in simplest form, 0.5 is $\frac{1}{2}$.

Example 2

Write 0.35 as a fraction in simplest form.

$$0.35 = \frac{35}{100}$$

0.35 means 35 hundredths.

$$= \frac{\cancel{35}^7}{\cancel{100}_{20}}$$

Simplify. Divide the numerator and denominator by the GCF, 5.

$$= \frac{7}{20}$$

So, in simplest form, 0.35 is $\frac{7}{20}$.

Example 3

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

Since 5 is a factor of 10, write an equivalent fraction with a denominator of 10.

$$\frac{3}{5} = \frac{6}{10} = 0.6$$

So, $\frac{3}{5} = \frac{6}{10}$.

Exercises

Write each decimal as a fraction or mixed number in simplest form.

1. 0.9

2. 0.8

3. 0.27

4. 0.75

5. 0.34

6. 0.125

7. 0.035

8. 0.008

Write each fraction or mixed number as a decimal.

9. $1\frac{3}{8}$

10. $1\frac{5}{8}$

11. $3\frac{5}{16}$

12. $4\frac{9}{20}$