

Name: _____

Date: _____

HW
Pre-AP

Section

14

Converting Decimals to Fractions

ABSORB

In previous sections, we converted fractions to decimals and used those conversions to compare the relative sizes of fractions. It makes sense that decimals should be able to be converted into fractions as well. Here's how the process works:

Example 1: We'll begin with the decimal number 0.12.

This actually equates to $\frac{12}{100}$ using the place value of decimal numbers, since 0.12 reads as "twelve hundredths."

$\frac{12}{100}$ will reduce to $\frac{3}{25}$, since 4 is a factor of both 12 and 100.

So, $0.12 = \frac{3}{25}$.

Example 2: Convert 0.34 to a fraction.

$\frac{34}{100}$ reduces to $\frac{17}{50}$.

$$0.34 = \frac{17}{50}$$

Example 3: Convert 2.50 to an equivalent mixed number.

2.50 becomes $2\frac{50}{100}$, which reduces to $2\frac{1}{2}$.

APPLY

Convert the decimals to fractions written in lowest terms. Some may be mixed numbers.

1. $0.22 =$ _____

2. $0.18 =$ _____

3. $0.45 =$ _____

4. $0.25 =$ _____

5. $0.444 =$ _____

6. $0.325 =$ _____

7. $0.825 =$ _____

8. $10.80 =$ _____

9. $0.10 =$ _____

10. $2.75 =$ _____

11. $0.16 =$ _____

12. $4.25 =$ _____