

Name: ..... Class: .....

Convert fractions and mixed numbers to decimals, denominators 10 and 100

Convert the following fractions to decimals.

a.  $\frac{29}{100}$

b.  $\frac{8}{10}$

c.  $1\frac{48}{100}$

d.  $\frac{5}{100}$



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Convert fractions and mixed numbers to decimals, denominators 10 and 100

Convert the following fractions to decimals.

a.  $\frac{29}{100}$

To convert the fraction to a decimal, let's first of all write the numerator 29 as 29.0

Then, since the denominator has two zeros, we'll move the decimal point in 29.0 two places to the left.

$$29.0 = 0.29$$

$$\text{So, } \frac{29}{100} = 0.29$$

b.  $\frac{8}{10}$

To convert the fraction to a decimal, let's first of all write the numerator 8 as 8.0

Then, since the denominator has one zero, we'll move the decimal point in 8.0 one place to the left.

$$8.0 = 0.8$$

$$\text{So, } \frac{8}{10} = 0.8$$

c.  $1\frac{48}{100}$

Let's first of all convert the mixed number into an improper fraction.

$$1\frac{48}{100} = \frac{(1 \times 100) + 48}{100} = \frac{148}{100}$$

Secondly, let's write the numerator 148 as 148.0.

Finally, since the denominator has two zeros, we'll move the decimal point in 148.0 two places to the left.

$$148.0 = 1.48$$

$$\text{So, } 1\frac{48}{100} = 1.48$$

d.  $\frac{5}{100}$

To convert the fraction to a decimal, let's first of all write the numerator 5 as 5.0

Then, since the denominator has two zeros, we'll move the decimal point in 5.0 two places to the left.

$$05.0 = 0.05$$

$$\text{So, } \frac{5}{100} = 0.05$$