

## Fractions and Decimals

Sometimes, you will need to convert fractions into decimals. In order to convert a fraction into a decimal, you would just need to divide the numerator by the denominator. Remember, the numerator is the number on top of the line in a fraction. The denominator is the number below the line in a fraction. In other words, to turn a fraction into a decimal, you would divide the top number by the bottom number.

If your fraction is  $1/5$ , then you would need to divide 1 by 5. The fraction  $1/5$  means the same thing as  $1 \div 5$ . Since 1 is less than 5, it would be easier to write this as  $1.0 \div 5$  or  $5 \overline{)1.0}$ . Using basic division, you would then come to the conclusion that  $1.0 \div 5 = .2$ . This means that the fraction  $1/5$  would convert into the decimal  $.2$ .

The easiest way to convert a fraction into a decimal is to convert the fraction into an easily recognized division problem.

Example:  $17/34$  would be the same as saying  $17 \div 34$ .

Once again, you would set this up as a long division problem:  $34 \overline{)17.0}$   $.5$

This means that the fraction  $17/34$  would be the same as the decimal  $.005$ .

Sometimes, you may need to add fractions and decimals together. The easiest way to do this is to convert the fraction into a decimal and then add the decimals together.

Example:  $2/5 + .974 =$  \_\_\_\_\_

$2/5$  is the same as saying  $2 \div 5$ .

You would then set up your division problem and solve it:  $5 \overline{)2.0}$   $.4$

You can now replace the fraction  $2/5$  with its decimal equivalent, which is  $.4$ .

Your problem now becomes:

$$.4 + .974 = .978$$

By converting your fraction into a decimal, you can then add the two decimals together to arrive at your answer, which is  $.978$ .

It can seem difficult at first, but the more you practice, the better you will get at adding fractions and decimals.

Name \_\_\_\_\_

Date \_\_\_\_\_

## Fractions and Decimals Questions

Convert the following fractions into decimals (You can use the space below the question to work out your answer):

1.  $\frac{1}{4} =$  \_\_\_\_\_

2.  $\frac{4}{5} =$  \_\_\_\_\_

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

4.  $\frac{1}{2} =$  \_\_\_\_\_

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

6.  $\frac{9}{10} =$  \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

## Fractions and Decimals Answers

Convert the following fractions into decimals (You can use the space below the question to work out your answer):

1.  $\frac{1}{4} = .25$

2.  $\frac{4}{5} = .8$

3.  $\frac{3}{4} = .75$

4.  $\frac{1}{2} = .5$

5.  $\frac{2}{5} = .4$

6.  $\frac{9}{10} = .9$