

Changing Common Fractions to Decimal Fractions. Sheet 1

You are aware that a common fraction such as $\frac{1}{2}$ is really a division problem and really means one divided by two, or $2 \overline{)1}$

In such a problem it is necessary to place the decimal point in the dividend and also above the line at the same point, then add a zero (or more) to the dividend. The above example, then, looks like this:

$$2 \overline{)1.0} \quad \text{the answer being ".5"}$$

Point 5 (.5) is of course equal to one half, so while the value has not changed in this conversion, the way the number value *looks* has.

Use this same method of dividing to find the equivalent decimal fractions from the following common fractions. Add up to 3 zeros to the dividend and continue dividing until the answer comes out evenly with no remainder. Use the back of this sheet to do the work. Show all work.

1. $\frac{1}{4}$ 2. $\frac{2}{8}$ 3. $\frac{4}{16}$ 4. $\frac{2}{4}$ 5. $\frac{3}{6}$ 6. $\frac{2}{5}$ 7. $\frac{3}{5}$ 8. $\frac{4}{5}$ 9. $\frac{8}{20}$ 10. $\frac{6}{12}$

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