Math Online School

Converting Fractions into Decimals



Convert the fractions into decimals!

Tip: If the denominator is 10, 100, or 1,000, write the numerator as a decimal number. Count the zeros in the denominator to see how many decimal places your decimal number should have.

$\frac{2}{10} = 0.2$ (1 zero; 1 decimal place)

$\frac{3}{10} = 0.3$ $\quad \frac{8}{10} = \square$ $\quad \frac{48}{100} = \square$

$\frac{2}{100} = \square$ $\quad \frac{65}{10} = \square$ $\quad \frac{23}{100} = \square$

$\frac{112}{100} = \square$ $\quad \frac{543}{1000} = \square$ $\quad \frac{9}{1000} = \square$

Rewrite each fraction as an equivalent fraction with a denominator of 10, 100, or 1,000. Then convert it to a decimal.

$\frac{3}{5} \begin{matrix} \text{x 2} \\ \text{x 2} \end{matrix} = \frac{6}{10} = \square$ $\quad \frac{3}{4} \square = \frac{\quad}{\quad} = \square$ $\quad \frac{1}{2} \square = \frac{\quad}{\quad} = \square$

$\frac{15}{50} \square = \frac{\quad}{\quad} = \square$ $\quad \frac{16}{80} \square = \frac{\quad}{\quad} = \square$ $\quad \frac{14}{70} \square = \frac{\quad}{\quad} = \square$

$\frac{6}{20} \square = \frac{\quad}{\quad} = \square$ $\quad \frac{7}{25} \square = \frac{\quad}{\quad} = \square$ $\quad \frac{15}{30} \square = \frac{\quad}{\quad} = \square$

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$\frac{2}{10} = 0.2$ (1 zero; 1 decimal place)

$\frac{3}{10} = 0.3$ $\quad \frac{8}{10} = 0.8$ $\quad \frac{48}{100} = 0.48$

$\frac{2}{100} = 0.02$ $\quad \frac{65}{10} = 6.5$ $\quad \frac{23}{100} = 0.23$

$\frac{112}{100} = 1.12$ $\quad \frac{543}{1000} = 0.543$ $\quad \frac{9}{1000} = 0.009$

Rewrite each fraction as an equivalent fraction with a denominator of 10, 100, or 1,000. Then convert it to a decimal.

$\frac{3}{5} \times\frac{2}{2} = \frac{6}{10} = 0.6$ $\quad \frac{3}{4} \times\frac{25}{25} = \frac{75}{100} = 0.75$ $\quad \frac{1}{2} \times\frac{5}{5} = \frac{5}{10} = 0.5$

$\frac{15}{50} \div\frac{5}{5} = \frac{3}{10} = 0.3$ $\quad \frac{16}{80} \div\frac{8}{8} = \frac{2}{10} = 0.2$ $\quad \frac{14}{70} \div\frac{7}{7} = \frac{2}{10} = 0.2$

$\frac{6}{20} \div\frac{2}{2} = \frac{3}{10} = 0.3$ $\quad \frac{7}{25} \times\frac{4}{4} = \frac{28}{100} = 0.28$ $\quad \frac{15}{30} \div\frac{3}{3} = \frac{5}{10} = 0.5$