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)

$\frac{5}{10} =$ ☐ $\quad \frac{9}{10} =$ ☐ $\quad \frac{503}{100} =$ ☐

$\frac{4}{100} =$ ☐ $\quad \frac{23}{10} =$ ☐ $\quad \frac{900}{100} =$ ☐

$\frac{107}{100} =$ ☐ $\quad \frac{7125}{1000} =$ ☐ $\quad \frac{51}{1000} =$ ☐

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

$\frac{2}{5} \begin{matrix}\times 2 \\ \times 2\end{matrix} = \frac{4}{10} =$ ☐ $\quad \frac{1}{4} \square = \frac{\quad}{\quad} =$ ☐ $\quad \frac{3}{2} \square = \frac{\quad}{\quad} =$ ☐

$\frac{25}{50} \square = \frac{\quad}{\quad} =$ ☐ $\quad \frac{8}{80} \square = \frac{\quad}{\quad} =$ ☐ $\quad \frac{36}{30} \square = \frac{\quad}{\quad} =$ ☐

$\frac{2}{20} \square = \frac{\quad}{\quad} =$ ☐ $\quad \frac{3}{20} \square = \frac{\quad}{\quad} =$ ☐ $\quad \frac{30}{60} \square = \frac{\quad}{\quad} =$ ☐

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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)

$\frac{5}{10} = 0.5$ $\quad \frac{9}{10} = 0.9$ $\quad \frac{503}{100} = 5.03$

$\frac{4}{100} = 0.04$ $\quad \frac{23}{10} = 2.3$ $\quad \frac{900}{100} = 9$

$\frac{107}{100} = 1.07$ $\quad \frac{7125}{1000} = 7.125$ $\quad \frac{51}{1000} = 0.051$

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

$\frac{2}{5} \times\frac{2}{2} = \frac{4}{10} = 0.4$ $\quad \frac{1}{4} \times\frac{25}{25} = \frac{25}{100} = 0.25$ $\quad \frac{3}{2} \times\frac{5}{5} = \frac{15}{10} = 1.5$

$\frac{25}{50} \div\frac{5}{5} = \frac{5}{10} = 0.5$ $\quad \frac{8}{80} \div\frac{8}{8} = \frac{1}{10} = 0.1$ $\quad \frac{36}{30} \div\frac{3}{3} = \frac{12}{10} = 1.2$

$\frac{2}{20} \div\frac{2}{2} = \frac{1}{10} = 0.1$ $\quad \frac{3}{20} \times\frac{5}{5} = \frac{15}{100} = 0.15$ $\quad \frac{30}{60} \div\frac{6}{6} = \frac{5}{10} = 0.5$