

Mathematics

Converting from Fractions to Percentages

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Try this

By first converting the fraction to a denominator of 100, write the fraction as the equivalent percentage.

$$\frac{47}{100} = \underline{\quad} \%$$

$$\frac{4}{5} = \frac{?}{?} = \underline{\quad} \%$$

$$\frac{11}{25} = \frac{?}{100} = \underline{\quad} \%$$

$$\frac{11}{20} = \frac{?}{?} = \underline{\quad} \%$$

$$\frac{37}{10} = \frac{?}{?} = \underline{\quad} \%$$

$$\frac{37}{1000} = \frac{?}{?} = \underline{\quad} \%$$



Connect

When the denominator is not a factor of 100, we have to use long division

$$\frac{1}{3} = 0.\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \%$$

$$\frac{1}{6} = 0.\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \%$$



Independent task

Write the following fractions as percentages

a) $\frac{37}{100}$

b) $\frac{3}{5}$

c) $\frac{7}{20}$

d) $\frac{26}{25}$

e) $\frac{1}{9}$

f) $\frac{2}{9}$

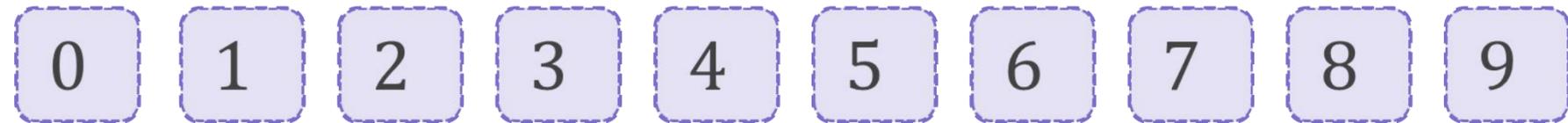
g) $\frac{3}{9}$

h) $\frac{3}{8}$



Explore

Choose from the 0-9 digit cards to complete the equivalent fraction and percentage frame in five different ways.
You may use the digit cards more than once.



$$\begin{array}{cc} \square & \square \\ \hline \square & \square \end{array} = \square \square \%$$



Try this Answers

By first converting the fraction to a denominator of 100, write the fraction as the equivalent percentage.

$$\frac{47}{100} = 47\%$$

$$\frac{4}{5} = \frac{80}{100} = 80\%$$

$$\frac{11}{25} = \frac{44}{100} = 44\%$$

$$\frac{11}{20} = \frac{55}{100} = 55\%$$

$$\frac{37}{10} = \frac{370}{100} = 370\%$$

$$\frac{37}{1000} = \frac{3.7}{100} = 3.7\%$$



Connect

When the denominator is not a factor of 100, we have to use long division

$$\frac{1}{3} = 0.\underline{333 \dots} = \underline{33.\dot{3}} \%$$

$$\frac{1}{6} = 0.\underline{1666 \dots} = \underline{16.\dot{6}} \%$$



Independent task

Write the following fractions as percentages

a) $\frac{37}{100}$

37%

b) $\frac{3}{5}$

60%

c) $\frac{7}{20}$

35%

d) $\frac{26}{25}$

104%

e) $\frac{1}{9}$

11.1%

f) $\frac{2}{9}$

22.2%

g) $\frac{3}{9}$

33.3%

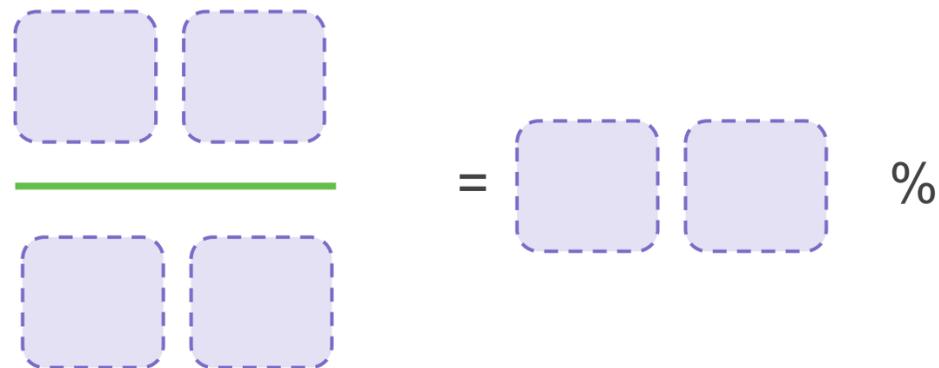
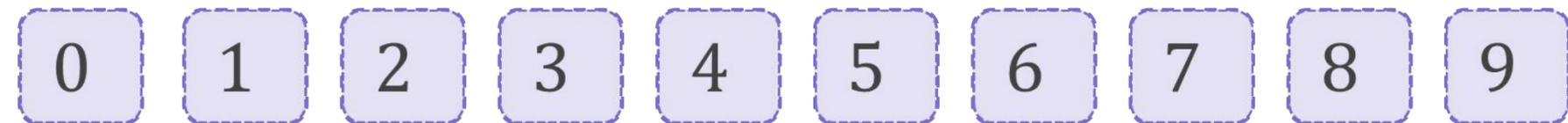
h) $\frac{3}{8}$

37.5%



Try this

Choose from the 0-9 digit cards to complete the equivalent fraction and percentage frame in five different ways.
You may use the digit cards more than once.



Many possibilities, eg

$$\frac{14}{25} = 58\%$$

$$\frac{13}{20} = 65\%$$

$$\frac{43}{50} = 86\%$$

