

Expressing fractions and mixed numbers as decimals

Let's Learn

a) Express $\frac{3}{5}$ as a decimal.

7-4
3+

$$\frac{3}{5} = \frac{6}{10} = 0.6$$

$\frac{3}{5}$ can be changed to a fraction which has a denominator of 10.

$$\frac{3}{5} = \frac{6}{10}$$

$\begin{array}{c} \times 2 \\ \curvearrowright \\ \frac{3}{5} = \frac{6}{10} \\ \curvearrowleft \\ \times 2 \end{array}$



b) Express $4\frac{9}{20}$ as a decimal.

$$\frac{9}{20} = \frac{45}{100} = 0.45$$

$$4\frac{9}{20} = 4.45$$

$\frac{9}{20}$ can be changed to a fraction which has a denominator of 100.

$$\frac{9}{20} = \frac{45}{100}$$

$\begin{array}{c} \times 5 \\ \curvearrowright \\ \frac{9}{20} = \frac{45}{100} \\ \curvearrowleft \\ \times 5 \end{array}$



Let's Do

1. Express each fraction or mixed number as a decimal.

a) $\frac{3}{4} = \frac{75}{100} = 0.75$

b) $\frac{7}{20} = \frac{35}{100} = 0.35$

c) $\frac{8}{25} = \frac{32}{100} = 0.32$

d) $1\frac{1}{2} = 1\frac{5}{10} = 1.5$

e) $2\frac{2}{5} = 2\frac{4}{10} = 2.4$

f) $3\frac{27}{50} = 3\frac{54}{100} = 3.54$