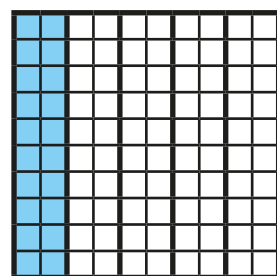


# Convert between fractions and decimals – fifths and quarters

1 Use the diagrams to help you complete the statements.

a)

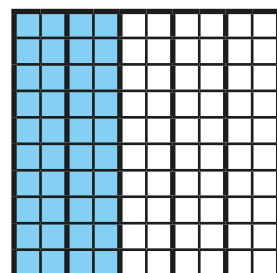


$$\frac{1}{5} = \frac{2}{10}$$

$$\frac{1}{5} = \frac{20}{100}$$

$$\frac{1}{5} = 0.2$$

b)

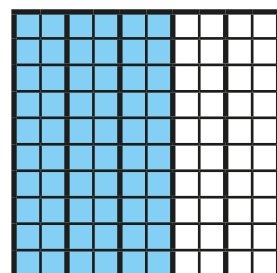


$$\frac{2}{5} = \frac{4}{10}$$

$$\frac{2}{5} = \frac{40}{100}$$

$$\frac{2}{5} = 0.4$$

c)



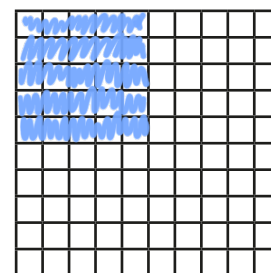
$$\frac{3}{5} = \frac{6}{10}$$

$$\frac{3}{5} = \frac{60}{100}$$

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

2 Use a hundred square to help you complete the statement.

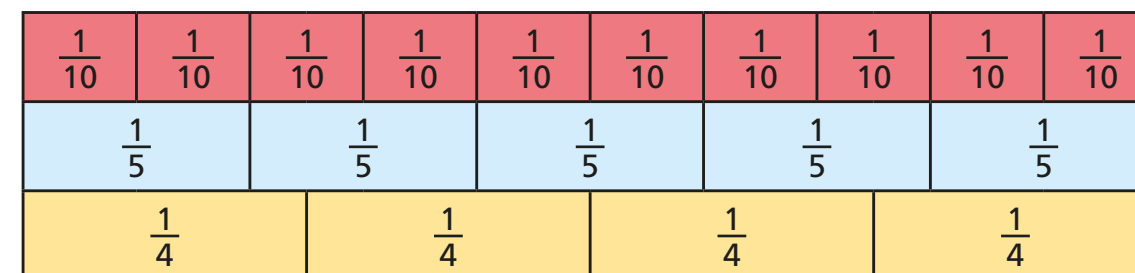
$$\text{a) } \frac{1}{4} = \frac{25}{100} = 0.25$$



b) Use your answer to part a) to help you to complete the statement.

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

3 Use the fraction wall to help you complete the statements.



$$\text{a) } \frac{4}{5} = \frac{8}{10} = 0.8$$

$$\text{d) } \frac{3}{10} < \frac{2}{5}$$

$$\text{b) } \frac{6}{10} = \frac{3}{5} = 0.6$$

$$\text{e) } \frac{4}{5} > \frac{1}{4}$$

$$\text{c) } \frac{2}{4} = \frac{5}{10} = 0.5$$

$$\text{f) } \frac{10}{10} = \frac{4}{4}$$



- 4 Which is greater,  $\frac{3}{4}$  or  $\frac{4}{5}$ ? Explain how you know.

$$\frac{3}{4} = \frac{75}{100} \quad \frac{4}{5} = \frac{80}{100}$$

$\frac{4}{5}$  is greater than  $\frac{3}{4}$

- 5 Fill in the missing numbers.

Use the number line to help you.



- a)  $\frac{6}{5} = 1.\underline{2}$       c)  $0.8 = \frac{\boxed{4}}{5}$   
 b)  $\frac{9}{5} = \underline{1.8}$       d)  $1.6 = \frac{\boxed{8}}{5}$

- 6 Which is greater,  $15\frac{3}{4}$  or  $15\frac{7}{10}$ ?

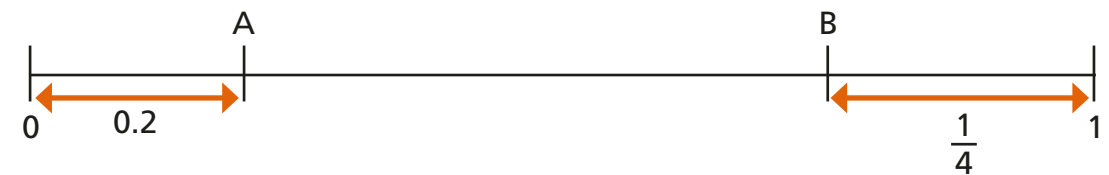
Explain how you know.

$$\frac{3}{4} = \frac{75}{100} \quad \frac{7}{10} = \frac{70}{100} \quad \frac{75}{100} > \frac{70}{100}$$

$15\frac{3}{4}$  is greater than  $15\frac{7}{10}$



- 7 Here is a number line from 0 to 1



- a) Write a fraction with a denominator of 10, which could go after B on the number line.

e.g.  $\frac{8}{10}$

- b) Write a fraction with a denominator of 100, which could go before A on the number line.

e.g.  $\frac{1}{100}$

- c) Write three fractions that could be in between A and B on the number line.

e.g.  $\frac{21}{100}$     $\frac{1}{2}$     $\frac{7}{10}$

Compare answers with a partner.

- 8 Tick the expressions that are equivalent to four-fifths of  $x$ .

$x + \frac{4}{5}$  ☐

$0.4x$  ☐

$\frac{4x}{5}$  ☒

$0.8x$  ☒

$x - \frac{4}{5}$  ☐

$0.45x$  ☐

Talk about your answers with a partner.

