# Fractions to percentages

**1**

**a)** What fraction of the array of counters is red? $\frac{3}{10}$

**b)** What fraction of the array of counters is yellow? $\frac{7}{10}$

**c)** What percentage of the array of counters is red? 30 %

**d)** What percentage of the array of counters is yellow? 70 %

**e)** What do you notice about the two percentages?

**2** **a)** Shade the hundred squares to represent the fractions.

$\frac{40}{100}$

$\frac{65}{100}$

$\frac{1}{2}$

$\frac{7}{10}$

**b)** Write the fractions as percentages.

$\frac{40}{100}$ = 40 %

$\frac{65}{100}$ = 65 %

$\frac{1}{2}$ = 50 %

$\frac{7}{10}$ = 70 %

**c)** Compare your shaded grids with a partner's.

What is the same and what is different?

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**3** Fill in the missing numbers.

a) $\frac{9}{10} = \frac{\boxed{90}}{100} = \boxed{90}$ %

b) $\frac{9}{20} = \frac{\boxed{45}}{100} = \boxed{45}$ %

c) $\frac{9}{50} = \frac{\boxed{18}}{100} = \boxed{18}$ %

d) $\frac{9}{25} = \frac{\boxed{36}}{100} = \boxed{36}$ %

**4**

Explain the mistake that Ron has made.

What is the correct answer?

$\frac{1}{20} = \boxed{5}$ %

**5** Convert the fractions to percentages.

a) $\frac{1}{4} = \boxed{25\%}$

$\frac{1}{2} = \boxed{50\%}$

$\frac{3}{4} = \boxed{75\%}$

b) $\frac{1}{5} = \boxed{20\%}$

$\frac{2}{5} = \boxed{40\%}$

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

c) $\frac{16}{20} = \boxed{80\%}$

$\frac{8}{20} = \boxed{40\%}$

$\frac{4}{20} = \boxed{20\%}$

d) $\frac{45}{50} = \boxed{90\%}$

$\frac{9}{10} = \boxed{90\%}$

$\frac{18}{20} = \boxed{90\%}$

e) What do you notice?

**6** a) Shade the grid in the given proportions.

- $\frac{3}{5}$ green
- $\frac{4}{20}$ blue
- 14% red
- the rest yellow

b) What percentage of the grid is yellow?

$\boxed{6}$ %

**7** a) Use each digit card once to make the statements correct.

1 2 3 4 5

$\frac{\boxed{1}}{\boxed{2}} > \boxed{4}$ 0%

75% = $\frac{\boxed{3}}{4}$

$\frac{3}{\boxed{5}} < 65\%$

b) Are there any other solutions?

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