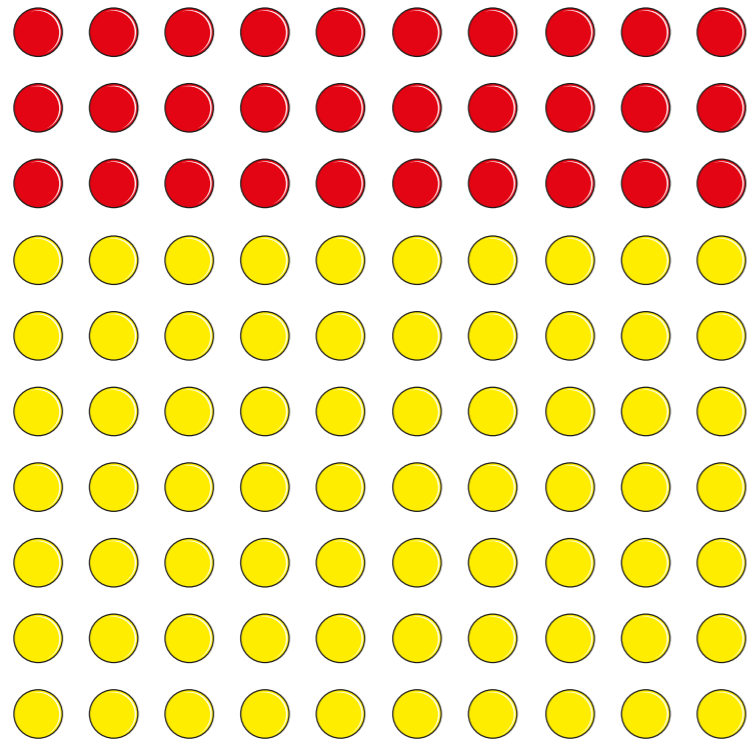# Fractions to percentages

1

a) What fraction of the array of counters is red?

$\dfrac{3}{10}$

b) What fraction of the array of counters is yellow?

$\dfrac{7}{10}$

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

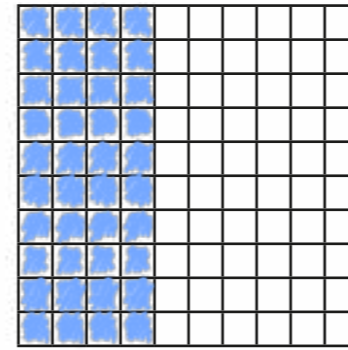d) What percentage of the array of counters is yellow? 70 %

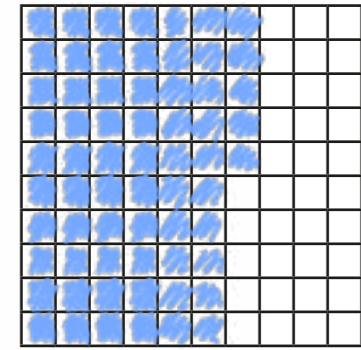e) What do you notice about the two percentages?

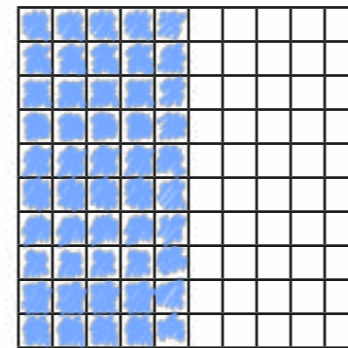**2** a) Shade the hundred squares to represent the fractions.
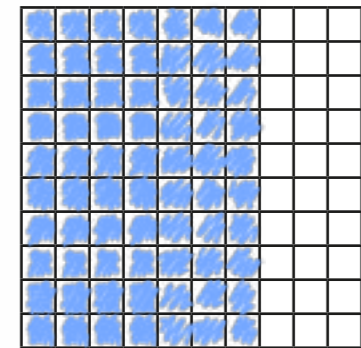
$\dfrac{40}{100}$

$\dfrac{65}{100}$

$\dfrac{1}{2}$

$\dfrac{7}{10}$

b) Write the fractions as percentages.

$\dfrac{40}{100} =$ 40 % $\dfrac{65}{100} =$ 65 %

$\dfrac{1}{2} =$ 50 % $\dfrac{7}{10} =$ 70 %

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

What is the same and what is different?
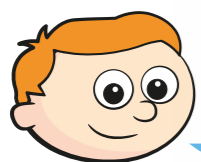
3 Fill in the missing numbers.

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

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

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

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

4

> $\dfrac{1}{10}$ is 10%, so $\dfrac{1}{20}$ must be 20%.

Explain the mistake that Ron has made.

What is the correct answer?

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

5 Convert the fractions to percentages.

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

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

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

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

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

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

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

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

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

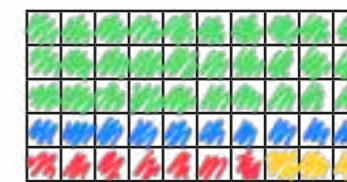d) $\dfrac{45}{50} = \boxed{90\%}$

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

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

e) What do you notice?

6 a) Shade the grid in the given proportions.

- $\dfrac{3}{5}$ green
- 14% red
- $\dfrac{4}{20}$ blue
- 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.

$\boxed{1}$ $\boxed{2}$ $\boxed{3}$ $\boxed{4}$ $\boxed{5}$

$\dfrac{\boxed{1}}{\boxed{2}} > \boxed{4}\,0\%$ $75\% = \dfrac{\boxed{3}}{4}$ $\dfrac{3}{\boxed{5}} < 65\%$

b) Are there any other solutions?