Fractions to percentages

1
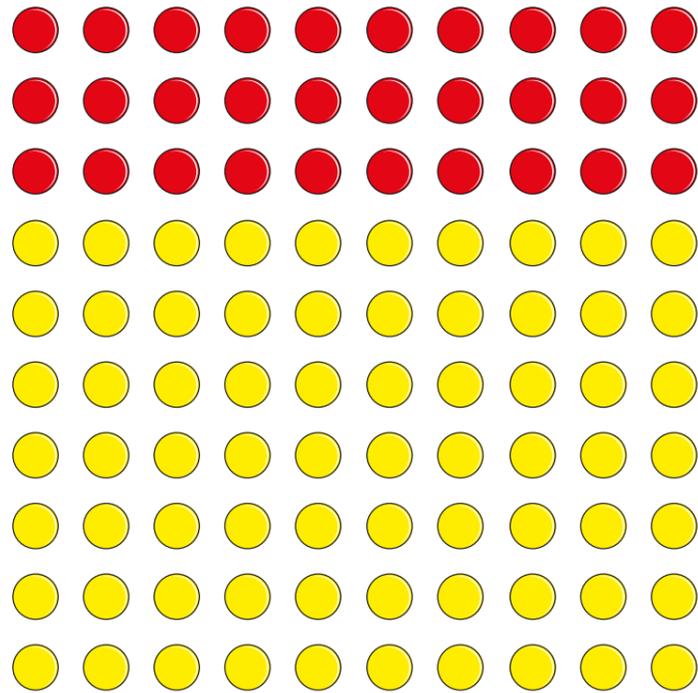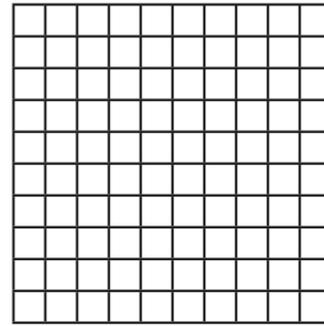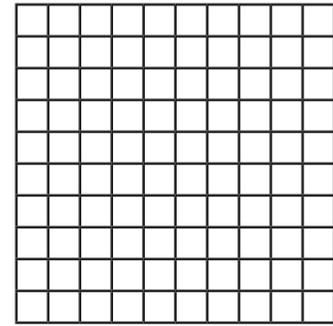

a) What fraction of the array of counters is red?

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

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

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

e) What do you notice about the two percentages?

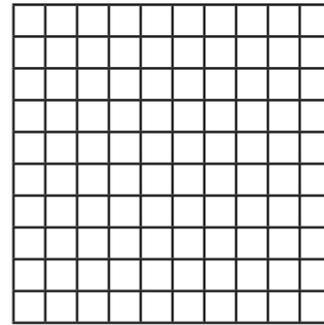**2** a) Shade the hundred squares to represent the fractions.

$\frac{40}{100}$
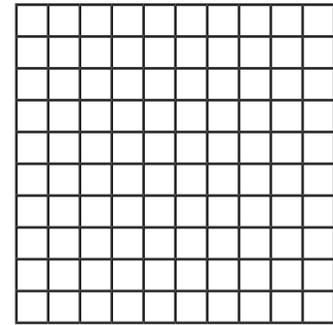

$\frac{65}{100}$

$\frac{1}{2}$

$\frac{7}{10}$

b) Write the fractions as percentages.

$\frac{40}{100} = $ ☐ % $\frac{65}{100} = $ ☐ %

$\frac{1}{2} = $ ☐ % $\frac{7}{10} = $ ☐ %

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

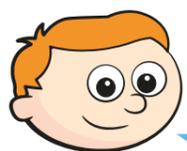What is the same and what is different?

3 Fill in the missing numbers.

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

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

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

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

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 Convert the fractions to percentages.

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

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

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

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

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

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

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

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

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

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

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

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

e) What do you notice?

6 a) Shade the grid in the given proportions.
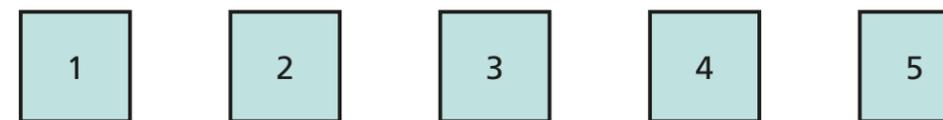
- $\dfrac{3}{5}$ green
- 14% red
- $\dfrac{4}{20}$ blue
- the rest yellow
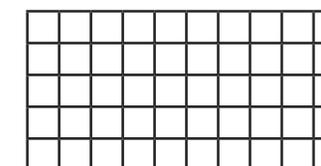
b) What percentage of the grid is yellow?

$\boxed{}$ %

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

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

$\dfrac{\boxed{}}{\boxed{}} > \boxed{}$ 0%

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

$\dfrac{3}{\boxed{}} < 65\%$

b) Are there any other solutions?