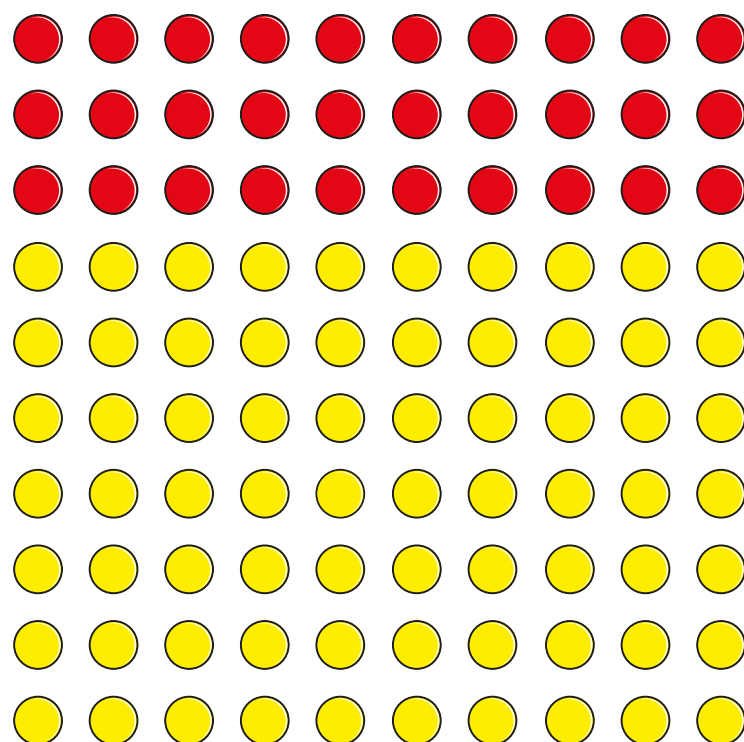# Fractions to percentages

1 Here is an array of 100 counters.

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

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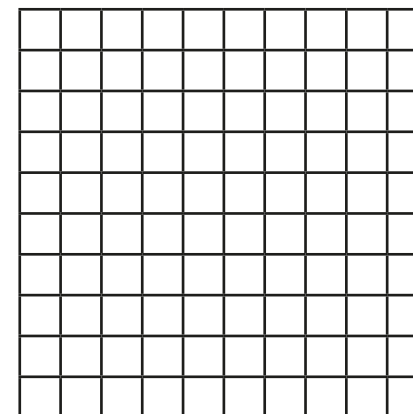
c) What percentage of the array of counters is red? ☐ %

d) What percentage of the array of counters is yellow? ☐ %
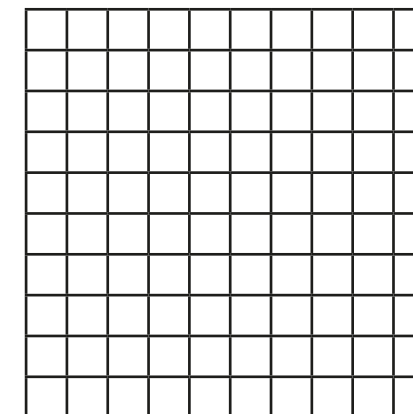
e) What do you notice about the two percentages?

2 Shade the hundred squares to represent the fractions.
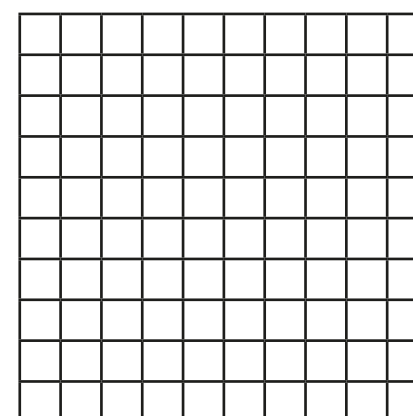
Write each fraction as a percentage.

a) $\dfrac{40}{100}$

$\dfrac{40}{100} = $ ☐ %

c) $\dfrac{65}{100}$

$\dfrac{65}{100} = $ ☐ %

b) $\dfrac{1}{2}$

$\dfrac{1}{2} = $ ☐ %

d) $\dfrac{7}{10}$
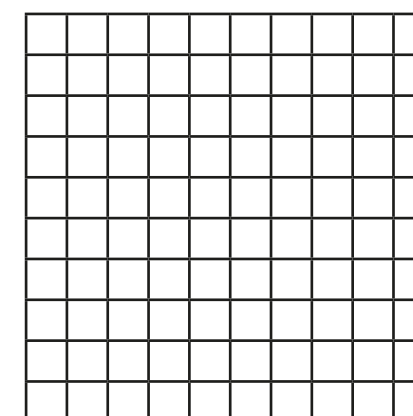
$\dfrac{7}{10} = $ ☐ %

Compare answers with a partner.

What is the same and what is different?

3 Fill in the missing numbers.

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

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

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

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

4 Convert the fractions to percentages.

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

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

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

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

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

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

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

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

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

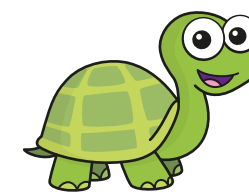**d)** $\dfrac{45}{50} = \boxed{}$ %

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

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

What do you notice?

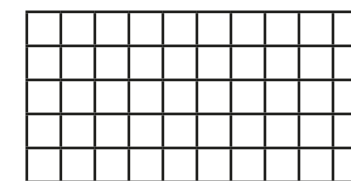**5** Tiny is converting fractions to percentages.

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

Do you agree with Tiny? _____

Explain your answer.
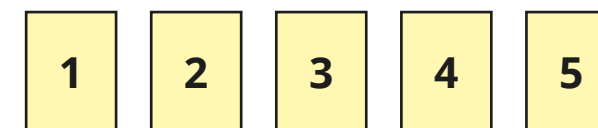
6 The grid is made up of 50 squares.

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 Use each digit card once to make the statements correct.

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

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

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

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

Are there any other solutions?