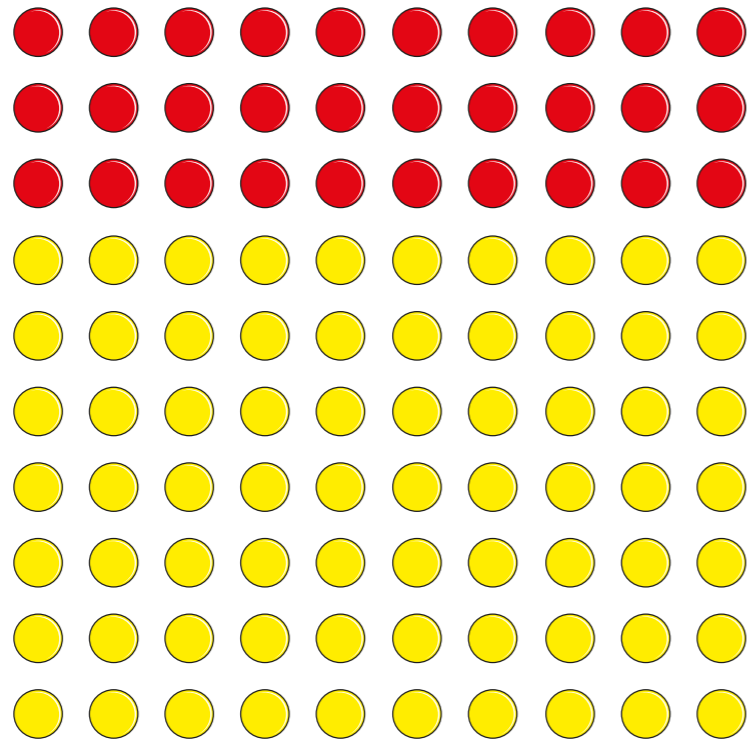




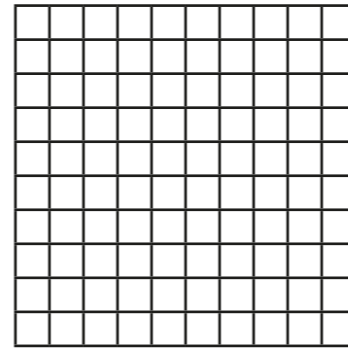
1



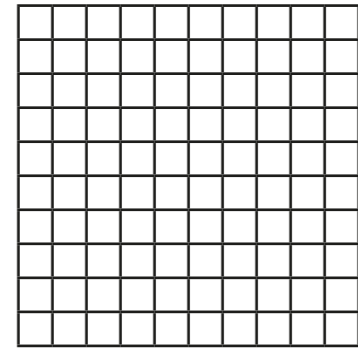
- a) What fraction of the array of counters is red?
- b) What fraction of the array of counters is yellow?
- c) What percentage of the array of counters is red?  %
- d) What percentage of the array of counters is yellow?  %
- e) What do you notice about the two percentages?

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

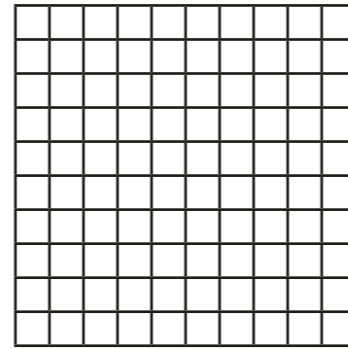
$$\frac{40}{100}$$



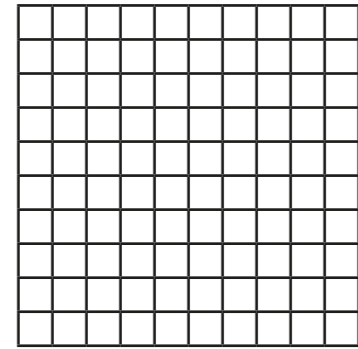
$$\frac{65}{100}$$



$$\frac{1}{2}$$



$$\frac{7}{10}$$



b) Write the fractions as percentages.

$$\frac{40}{100} = \boxed{\phantom{00}} \%$$

$$\frac{65}{100} = \boxed{\phantom{00}} \%$$

$$\frac{1}{2} = \boxed{\phantom{00}} \%$$

$$\frac{7}{10} = \boxed{\phantom{00}} \%$$

c) Compare your shaded grids with a partner's. What is the same and what is different?



3 Fill in the missing numbers.

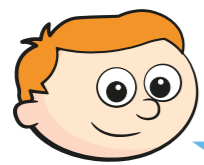
a)  $\frac{9}{10} = \frac{\square}{100} = \square\%$

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

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

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

4



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

Explain the mistake that Ron has made.

What is the correct answer?

$\frac{1}{20} = \square\%$

5 Convert the fractions to percentages.

a)  $\frac{1}{4} = \square$

b)  $\frac{1}{5} = \square$

$\frac{1}{2} = \square$

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

$\frac{3}{4} = \square$

$\frac{4}{5} = \square$

c)  $\frac{16}{20} = \square$

d)  $\frac{45}{50} = \square$

$\frac{8}{20} = \square$

$\frac{9}{10} = \square$

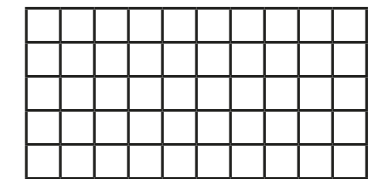
$\frac{4}{20} = \square$

$\frac{18}{20} = \square$

e) What do you notice?

6 a) Shade the grid in the given proportions.

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



b) What percentage of the grid is yellow?

$\square\%$

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



$\frac{\square}{\square} > \square\%$        $75\% = \frac{\square}{4}$        $\frac{3}{\square} < 65\%$

b) Are there any other solutions?