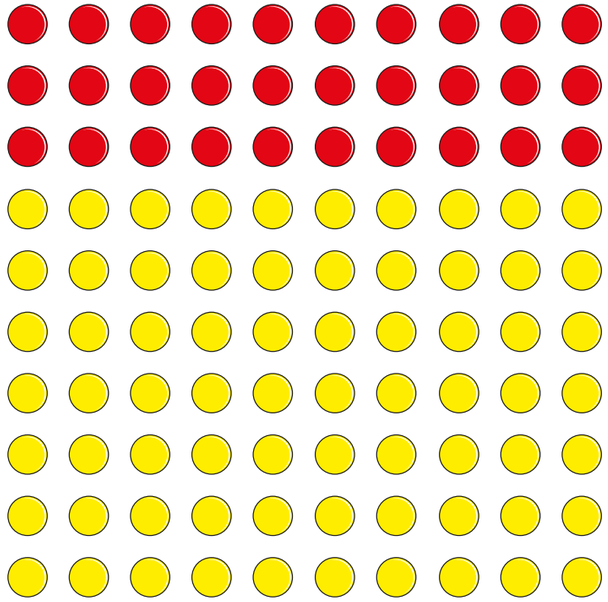
Fractions to percentages

1



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

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

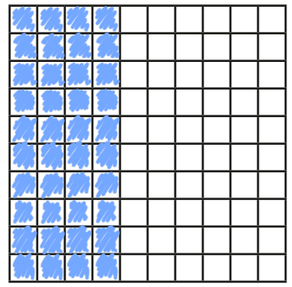
c) What percentage of the array of counters is red? 30 %

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

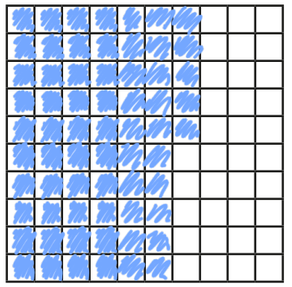
e) What do you notice about the two percentages?

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

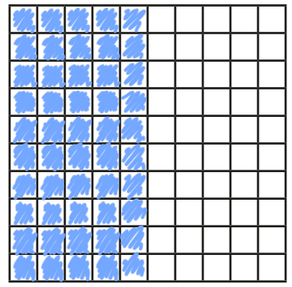
$\frac{40}{100}$



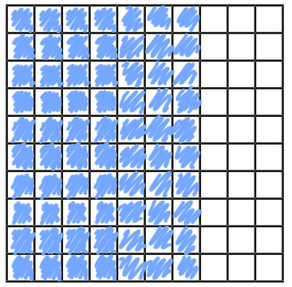
$\frac{65}{100}$



$\frac{1}{2}$



$\frac{7}{10}$



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?

3 Fill in the missing numbers.

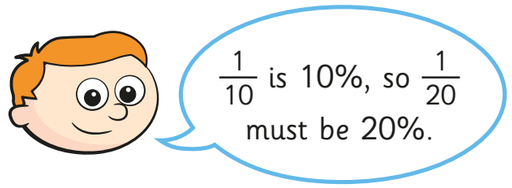
a) $\frac{9}{10} = \frac{\boxed{90}}{100} = \boxed{90}\ \%$

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

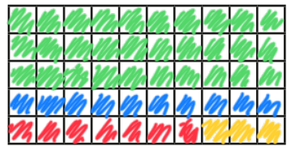
$\frac{9}{10} = \boxed{90\%}$

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

e) What do you notice?

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

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

1	2	3	4	5

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

b) Are there any other solutions?