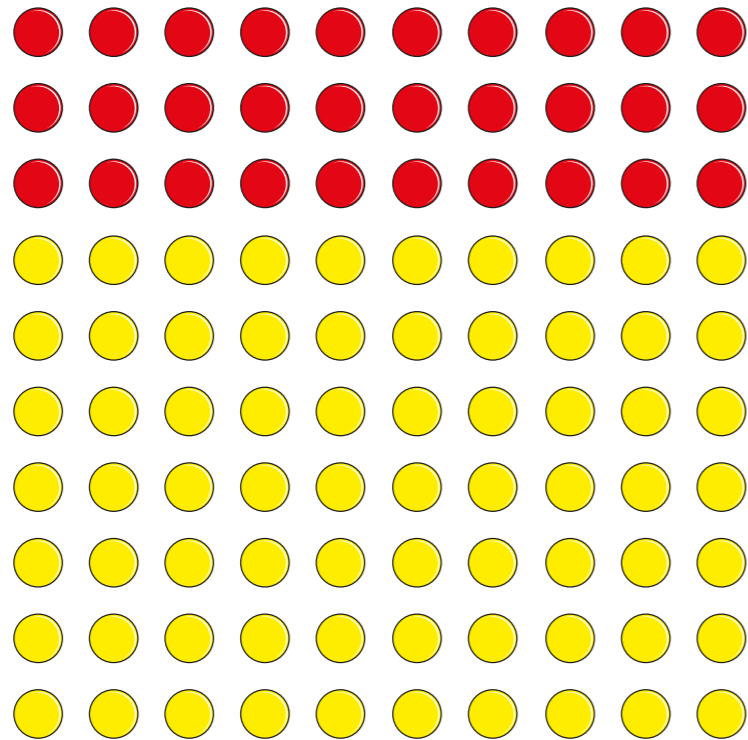




1



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 %

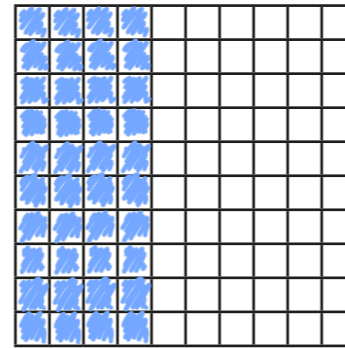
d) What percentage of the array of counters is yellow?

70 %

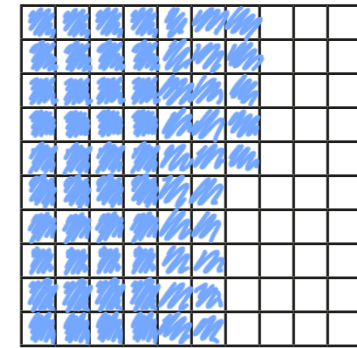
e) What do you notice about the two percentages?

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

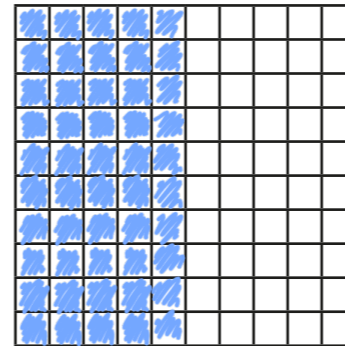
$\frac{40}{100}$



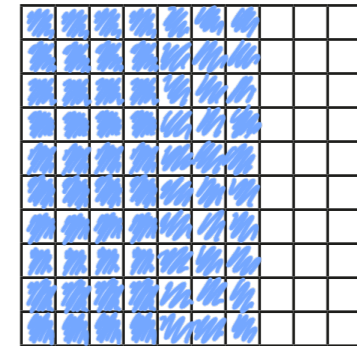
$\frac{65}{100}$



$\frac{1}{2}$



$\frac{7}{10}$



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.

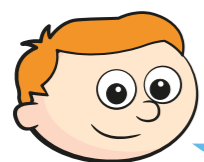
a)  $\frac{9}{10} = \frac{90}{100} = 90\%$

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

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

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

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?

$\frac{1}{20} = 5\%$

5 Convert the fractions to percentages.

a)  $\frac{1}{4} = 25\%$

b)  $\frac{1}{5} = 20\%$

$\frac{1}{2} = 50\%$

$\frac{2}{5} = 40\%$

$\frac{3}{4} = 75\%$

$\frac{4}{5} = 80\%$

c)  $\frac{16}{20} = 80\%$

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

$\frac{8}{20} = 40\%$

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

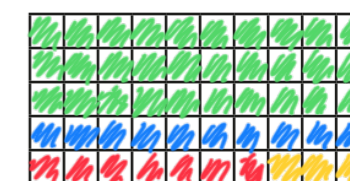
$\frac{4}{20} = 20\%$

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

e) What do you notice?

6 a) Shade the grid in the given proportions.

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



b) What percentage of the grid is yellow?

$22\%$

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



$\frac{1}{2} > 40\%$        $75\% = \frac{3}{4}$        $\frac{3}{5} < 65\%$

b) Are there any other solutions?