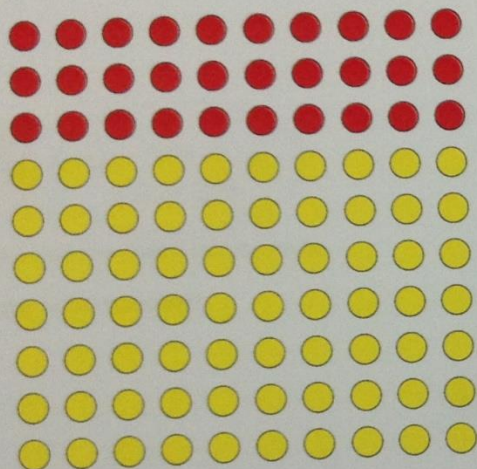


Friday 3rd July . Y6 you need to watch the W.R. video link first and then complete worksheets below as you investigate the relationship between fractions and percentages : Summer wk. 6 lesson 1

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?

 %

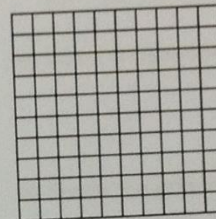
e) What do you notice about the two percentages?



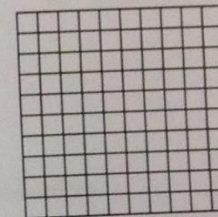
2

a) Shade the hundred squares to represent the fractions.

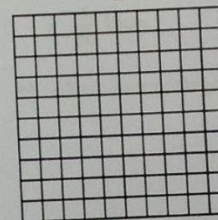
$$\frac{40}{100}$$



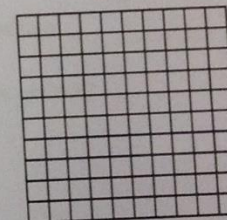
$$\frac{65}{100}$$



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



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



b) Write the fractions as percentages.

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

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

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

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

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

3 Fill in the missing numbers.

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

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

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

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

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?

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

5 Convert the fractions to percentages.

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

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

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

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

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

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

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

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

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

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

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

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

e) What do you notice?

6

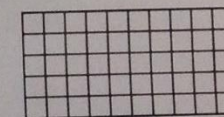
a) Shade the grid in the given proportions.

• $\frac{3}{5}$ green

• 14% red

• $\frac{4}{20}$ blue

• the rest yellow



b) What percentage of the grid is yellow?

$\boxed{}\%$

7

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



$\frac{\boxed{}}{\boxed{}} > \boxed{}\%$

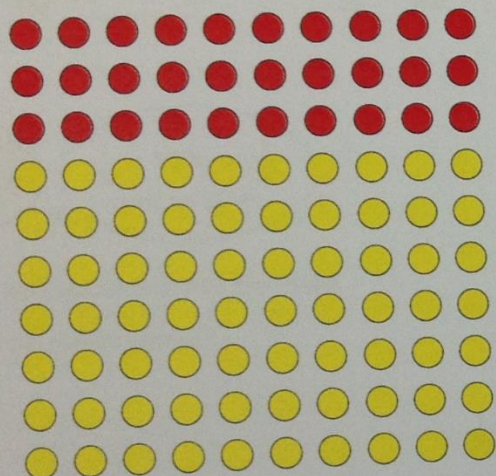
$75\% = \frac{\boxed{}}{4}$

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

b) Are there any other solutions?

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?

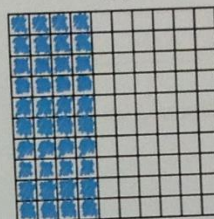
$$70\%$$

e) What do you notice about the two percentages?

2

a) Shade the hundred squares to represent the fractions.

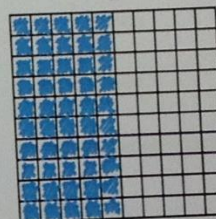
$$\frac{40}{100}$$



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



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



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



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

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

14% red

$\frac{4}{20}$ blue

the rest yellow



b) What percentage of the grid is yellow?

22%

7

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

1

2

3

4

5

$\frac{1}{2} > 40\%$

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

$\frac{3}{5} < 65\%$

b) Are there any other solutions?