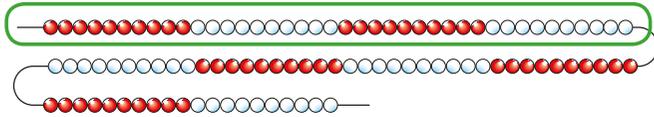


# Equivalent F.D.P

1 Rosie makes a number on a 100 bead string.



a) What fraction of the bead string is circled?

$$\frac{4}{10}$$

b) Write the fraction as a decimal.

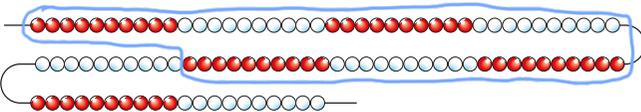
$$0.4$$

c) Write the decimal as a percentage.

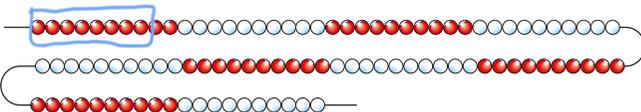
$$40\%$$

2 Circle the value on each 100 bead string.

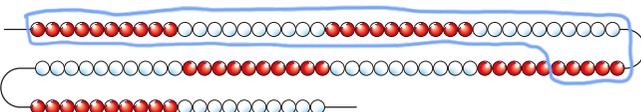
a) 70%



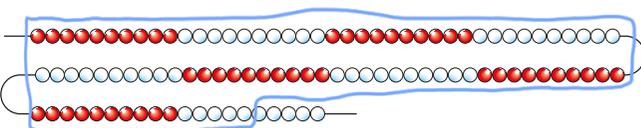
b) 0.08



c)  $\frac{45}{100}$



d) 95%



3 a) What fraction, decimal and percentage of the hundred square is shaded?

Hundred square	Fraction	Decimal	Percentage
	$\frac{1}{4}$	0.25	25%
	$\frac{1}{2}$	0.5	50%
	$\frac{3}{4}$	0.75	75%

Compare answers with a partner.

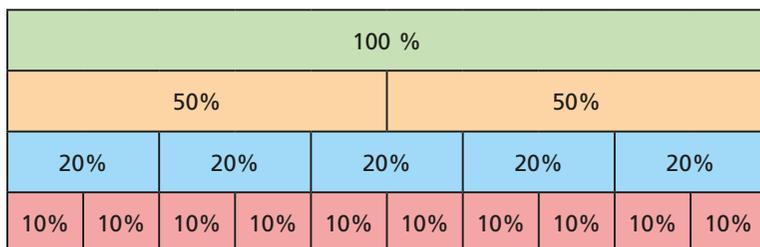
Did you get the same answers?

Did you simplify any of your answers?

b) Complete the table.

Quarters	Hundredths	Decimal
$\frac{1}{4}$	$\frac{25}{100}$	0.25
$\frac{2}{4}$	$\frac{50}{100}$	0.5
$\frac{3}{4}$	$\frac{75}{100}$	0.75

- 4 Use the diagram to help you complete the equivalence statements.



a) 1 whole =  $\boxed{100}$  %

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

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

$\frac{1}{10}$  =  $\boxed{10}$  %

c)  $\frac{1}{10}$  =  $\boxed{0.1}$  =  $\boxed{10}$  %

$\frac{3}{10}$  =  $\boxed{0.3}$  =  $\boxed{30}$  %

$\frac{7}{10}$  =  $\boxed{0.7}$  =  $\boxed{70}$  %

$\frac{9}{10}$  =  $\boxed{0.9}$  =  $\boxed{90}$  %

b)  $\frac{1}{5}$  =  $\boxed{0.2}$  =  $\boxed{20}$  %

$\frac{2}{5}$  =  $\boxed{0.4}$  =  $\boxed{40}$  %

$\frac{3}{5}$  =  $\boxed{0.6}$  =  $\boxed{60}$  %

$\frac{4}{5}$  =  $\boxed{0.8}$  =  $\boxed{80}$  %

$\frac{5}{5}$  =  $\boxed{1}$  =  $\boxed{100}$  %

- 5 Filip gets some money for his birthday. He spends  $\frac{2}{5}$  of his money and saves the rest. What percentage does he save?  $\boxed{60}$  %

- 6 Dora is doing a school survey. She compares how many children wear glasses in Class 4 and Class 5

- $\frac{1}{5}$  of the children in Class 4 wear glasses.
- 25% of the children in Class 5 wear glasses.
- Both classes have the same number of children.

Which class has more children who wear glasses? class 5

Explain your reasoning.

$\frac{1}{5} = 20\%$        $25\% > 20\%$

- 7 There are 30 children in Class 5

- $\frac{2}{5}$  have brown hair.
- 50% have blonde hair.

a) What percentage of children do **not** have brown or blonde hair?

$\boxed{10}$  %

b) What information did you **not** need to know to work out the answer?

The number of children.

8

$\frac{1}{4} = 25\% = \frac{25}{100} = \frac{250}{1000}$

Use this fact to convert  $\frac{1}{8}$  and  $\frac{3}{8}$  to decimals.

$\frac{1}{8} = \boxed{0.125}$

$\frac{3}{8} = \boxed{0.375}$