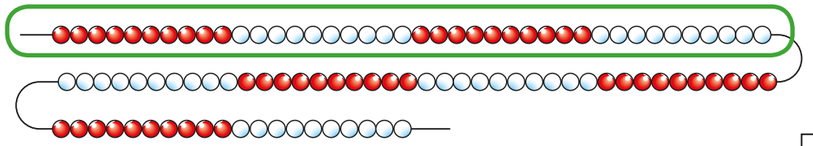
Equivalent F.D.P

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.

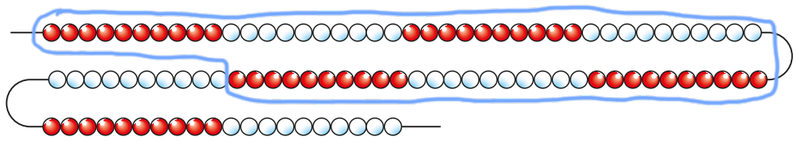
0·4

c) Write the decimal as a percentage.

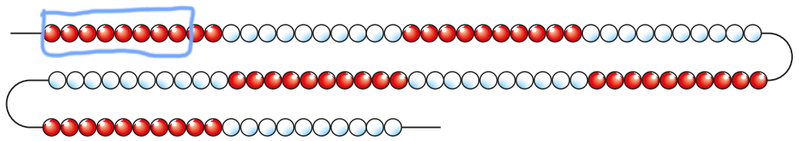
40 %

2 Circle the value on each 100 bead string.

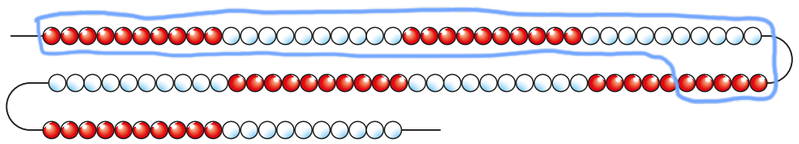
a) 70%



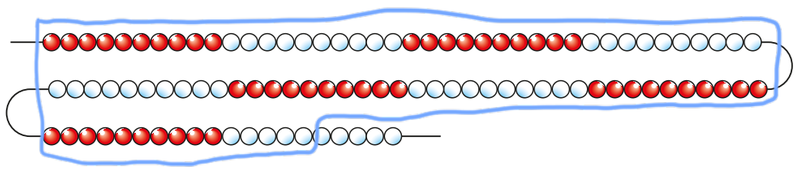
b) 0.08



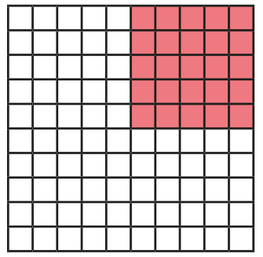
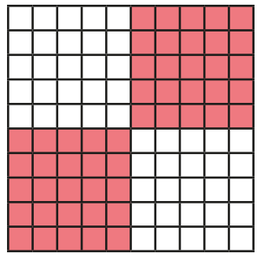
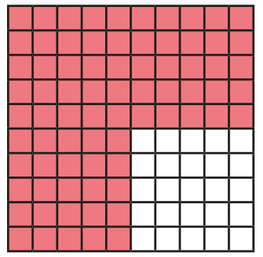
c) $\frac{45}{100}$



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.

100 %									
50%					50%				
20%		20%		20%		20%		20%	
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

a) 1 whole = 100 %

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

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

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

b)

$\frac{1}{5}$ = 0·2 = 20 %

$\frac{2}{5}$ = 0·4 = 40 %

$\frac{3}{5}$ = 0·6 = 60 %

$\frac{4}{5}$ = 0·8 = 80 %

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

c)

$\frac{1}{10}$ = 0·1 = 10 %

$\frac{3}{10}$ = 0·3 = 30 %

$\frac{7}{10}$ = 0·7 = 70 %

$\frac{9}{10}$ = 0·9 = 90 %

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? 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?

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.

$\frac{1}{8}$ = 0·125 $\frac{3}{8}$ = 0·375