

Express one number as a fraction or a percentage of another using calculator methods

1 Round each number to the nearest integer.

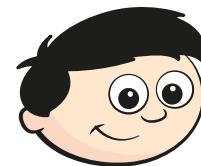
18.1	18.15	18.5	18.55	18.155
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2 Match the decimals, percentages and percentages rounded to the nearest integer. The first one has been done for you.

0.468	73.4%	52%
0.516	51.42%	47%
0.5142	51.6%	74%
0.734	73.5%	73%
0.735	46.8%	51%

Diagram showing connections: 0.468 connects to 46.8%, which connects to 51%. 0.734 connects to 73.5%, which connects to 74%.

3



To convert a decimal to a percentage, you multiply it by 100 and add a % sign.

- a) Explain to a partner why Dexter is correct.
b) Convert these decimals to percentages.

0.56	0.28	0.07	0.71	0.17
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- c) Convert these decimals to percentages, giving your answers to the nearest whole per cent.

0.568	0.282	0.073	0.715	0.17487
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

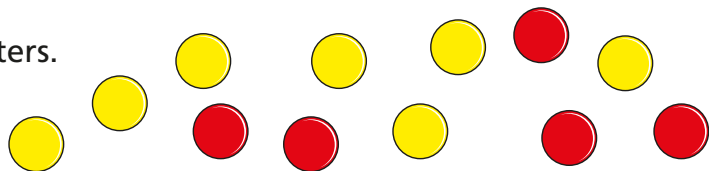
4

- Complete the table.
The first row has been done for you.

Words	Fraction	Decimal	Percentage to the nearest whole
17 out of 40	$\frac{17}{40}$	$17 \div 40 = 0.425$	43%
31 out of 40			
28 out of 30		$28 \div 30 = 0.933...$	93%
	$\frac{49}{80}$		
48 out of 75			
49 out of 75			
50 out of 75			

5

Here are some counters.



a) What fraction of the counters are yellow?

b) What percentage of the counters are yellow?

 %

c) What fraction of the counters are red?

d) What percentage of the counters are red?

 %

6

Filip enters a 15 km charity race.

He runs 11 km and walks the remaining 4 km.

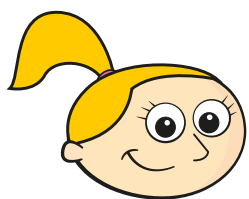
a) What fraction of the race does he run?

b) What percentage of the race does he run?

 %

c) What fraction of the race does he walk?

d) What percentage of the race does he walk?

 %

I worked out the percentage Filip walked without thinking of it as a fraction first.

e) Explain to a partner how Eva was able to do this.



7

Express the first quantity as a fraction and a percentage of the second quantity. Give your percentages to the nearest whole per cent.

a) 46 m, 80 m

 %

d) 7 hours, 1 day

 %

b) 40 kg, 75 kg

 %

e) 2 days, 1 week

 %

c) 165 g, $\frac{1}{2}$ kg

 %

f) 137 days, 1 leap year

 %

8

Here are the number of votes for each candidate in an election for a Year 8 school council representative.

Name	Votes
Esther	37
Aisha	41
Huan	36
Jack	38

a) How many students voted altogether?

b) What percentage of the votes did each candidate get?

Esther = % Aisha = %

Huan = % Jack = %

c) There are 185 students in Year 8
What percentage of them voted?

 %