Can I write percentages as fractions and decimals?

Percentages are shown using the symbol % and 'per cent' means 'out of 100.'

So, 67% = 67 out of 100.

If we know percent means out of 100, we can use 100 as our <u>denominator</u> (the number at the bottom of a fraction). This tells us how many parts make a whole.

$$/100$$

The number of our percentage, tells us how many parts of 100 we are counting (the <u>numerator</u>). This gives us our fraction:

$$67\% = {}^{67}/100$$

Once we have converted the percentage into a fraction, we can then convert it into a decimal. As the denominator is 100, it means we are working with hundredths and our decimal will have 2 digits after the decimal point.

$$^{67}/100$$

Ones	.	tenths ($^{x}/10$)	hundredths ($^{x}/100$)
0	.	6	7

Look at this example:

$$4\% = {}^{4}/100$$

Ones	.	tenths ($^{x}/10$)	hundredths ($^{x}/100$)
0	.	0	4

For practice, complete the table below:

Percentage	Fraction	Decimal
67%	67/100	0.67
32%		
7%		
51%		
89%		
90%		
26%		
9%		
10%		

If you need more practice, use a dice or ask a parent / sibling to give you 2 digits between 0 and 9 and make your own percentage.

e.g.

65%

Challenge: Can you start with a fraction and convert to a percent? Start with a decimal and create a fraction?

Answers

Percentage	Fraction	Decimal
67%	67/100	0.67
32%	32/100	0.32
7%	7/100	0.07
51%	51/100	0.51
89%	89/100	0.89
90%	90/100	0.9
26%	26/100	0.26
9%	9/100	0.09
10%	10/100	0.1