

Fractions, decimals and percentages

So far we have been using fractions to write probabilities. You can also use percentages and decimal numbers. For example you might hear in a weather report that 'there's a 20% chance of rain'.

Writing a probability as a fraction, decimal or a percentage doesn't change it. Percentages and decimals are just other ways to write fractions.

So what is a 20% chance of rain? 20% is the same as $\frac{1}{5}$ so there is a $\frac{1}{5}$ chance of rain.

You could use a decimal too, and say there is a 0.2 chance of rain.

Here are some conversions between fractions, percentages and decimals.

Fraction	Percentage	Decimal
1	100%	1
$\frac{3}{4}$	75%	0.75
$\frac{2}{3}$	66.67%	0.67
$\frac{1}{2}$	50%	0.5
$\frac{1}{3}$	33.33%	0.33
$\frac{1}{4}$	25%	0.25
$\frac{1}{5}$	20%	0.2
$\frac{1}{10}$	10%	0.1

For more information about working with fractions, decimals and percentages look at those topics on the website: you'll find fractions and percentages in this topic group and decimals in **Number**.