Unequal Probability:

Used when the chances of getting a particular outcome can not be compared to getting a different outcome e.g. when different numbers / quantities are involved.

Example	Number / quantity	Chance of it happening?	Probability
Picking a chocolate with a fruit centre from a box of chocolates	6 nut centres	Number of fruit centres: 5	0.35
	3 caramel centres	Total chocolates: 14	35%
	5 fruit centres <u>Each quantity is</u>	Chance = 5/14	5/14
	different so the	0.3515	
	chances of picking	14 5 . ⁵ 0 ⁸ 0 ²⁰ 0	
	one over the		
	another is <u>not equal</u>		
Remember: If it's definitely going to happen the probability is 1.		Chance of it <u>not</u> happening?	Probability of it <u>not</u> happening?
		▶1 – 0.35 = 0.65	0.65
We know the chance of it happening is 0.35 so the chance of it not happening is what's left.			65%

Note: in the above example of 5/14, 5 is a prime number so this fraction will not cancel down. Fractions should be cancelled down where appropriate.