1st March Higher Plus 5-a-day	
Simplify	Corbettmaths
$(2x-3)^3 - (x-4)^3$	
Express $\sqrt{8} + \sqrt{18}$ in the form $a\sqrt{2}$	
A scientist wants to estimate the number of toads living near a lake.	Estimate the number of toads that live near the lake.
On Friday she catches 90 toads and tags them. She then releases the toads.	
On Saturday the scientist catches 50 toads and 7 of them are tagged.	
There are 12 counters in a bag. 8 are green 3 are white 1 is red	
Conor takes two counters at random from the bag. Work out the probability that Conor takes two counters of different colours.	ו
$x^2 + 16y^2 = 8xy$	
x > 0 and $y > 0$	
Find the ratio x : y	