13th October Higher Plus 5-a-day	
A circle, centre (0, 0) has a circumference of 16π	Corbettmaths
Work out the equation of the circle.	
There are 30 children in Miss Robu's class.	Find the probability that both children entered both competitions.
17 enter a poetry competition22 entry an art competition4 enter neither competition.	
Two of the children are selected at random.	
The turning point of the graph $y = x^2 + ax + b$, where a and b are integers, is (5, -2)	
Find a and b	
Make x the subject	
$c = \frac{3x - 4}{x} + \frac{x + 1}{2x}$	
In triangle CDE, $CD = (x + 1)cm$, DE = $(x + 3)cm$ and CE = 5cm. Angle CDE = 60°	
Calculate x to 2 decimal places.	