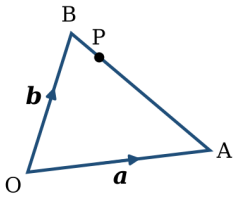
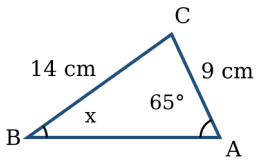
Day 332	A Tier 10-a-day
1 £1 = $1.12. (a) Change £240 to dollars. (b) Change $134.4 to pounds.	
2 OAB is a triangle. →OA = **a** and →OB = **b**. P is the point on AB such that AP : PB = 4 : 1. Find →OP in terms of **a** and **b**. 	
3 A hall is hired for £60 plus £25 for each hour. (a) Write a formula for the total cost, £C, after h hours. (b) Leo pays £310 in total. Work out the number of hours.	
4 Tom runs around a track in 40 seconds. Kiran runs around the same track in 90 seconds. They start together at the start line and keep running. How many laps will each have run when they are next together at the start line?	
5 Solve $3x^2 = 10x - 3$	

Day 332	A Tier 10-a-day
6 A bag contains 5 mint and 6 fruit sweets. Two sweets are taken at random without replacement. Work out the probability that the two sweets are the same colour.	
7 $\frac{2}{7}$ of the books in a library are fiction. There are 12 fiction books. Work out the total number of books in the library.	
8 Work out the size of angle x. (Calculator) Give your answer to 1 decimal place. The diagram is not drawn accurately. 	
9 Make x the subject of $y = \frac{3x + 3}{x - 6}$	
10 Ship A sails 12 km from a port on a bearing of 160°. Ship B sails 8 km from the same port on a bearing of 240°. (Calculator) Work out the distance between the two ships. Give your answer to 3 significant figures.	