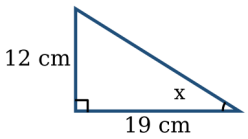
Day 148	A Tier 10-a-day
1 A straight line passes through the points (−1, 6) and (3, −2). Find the equation of the line.	
2 (a) Work out 0.5 × 0.09 (b) Work out 0.40 ÷ 0.05	
3 Factorise $x^2 - 3x - 10$	
4 Work out the size of angle x. (Calculator) Give your answer to 1 decimal place. The diagram is not drawn accurately. 	
5 m = 550 is rounded to the nearest 10. Write down the error interval for m.	

Day 148	A Tier 10-a-day
6 y is directly proportional to the square root of x. When x = 9, y = 15. (a) Find a formula for y in terms of x. (b) Work out the value of y when x = 36.	
7 A pizza slice is a sector of a circle has angle 200° at the centre and arc length 20π cm. Work out the radius of the sector.	
8 In a sale, all prices are reduced by 30%. A tent costs £28 in the sale. Work out the original price of the tent.	
9 y is inversely proportional to $\sqrt{x}$. When x = 25, y = 9. (a) Find a formula for y in terms of x. (b) Work out the positive value of x when y = 5.625.	
10 An equilateral triangle and a regular dodecagon share the side PQ and are on opposite sides of it. The two shapes meet at the point P. Work out the size of the angle at P that is not inside either shape.	