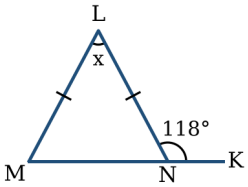
Day 294	A Tier 10-a-day
1 Here are the ingredients for 4 muffins. Flour: 120 g Butter: 100 g Milk: 80 ml (a) Work out how much flour is needed for 14 muffins. (b) Hannah has 633 g of butter. What is the greatest number of muffins she can make?	
2 Work out $4\frac{2}{5} - 1\frac{1}{2}$ Give your answer as a mixed number in its simplest form.	
3 LMN is an isosceles triangle with LM = LN. MNK is a straight line. Angle LNK = 118°. Work out the size of angle x. The diagram is not drawn accurately. 	
4 (a) Change 2.5 km^2 to m^2. (b) Change 72,000 cm^2 to m^2.	
5 Change 500 cm^3 to litres.	

Day 294	A Tier 10-a-day
6 A pizza slice is a sector of a circle has radius 12 cm and an arc length of 2π cm. Work out the angle at the centre of the sector.	
7 The value of a painting is increased by 20%. The new value is then increased by 5%. Work out the overall percentage change.	
8 The point P(5, 12) lies on a circle with centre O(0, 0). (a) Work out the equation of the circle, in the form $x^2 + y^2 = r^2$. (b) Find the equation of the tangent to the circle at P.	
9 A is the point (2, −1) and B is the point (8, −3). Find the equation of the perpendicular bisector of AB.	
10 The diagram shows a triangular prism. The cross-section is a right-angled triangle. Work out the total surface area of the prism. The diagram is not drawn accurately. 