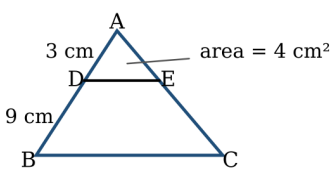
Day 96	IGCSE 10-a-day
1 The price of a tablet is increased by 20%. Later the new price is reduced by 20% in a sale. The sale price is £460.80. Work out the price before the increase. (Calculator)	
2 The curve $y = 2x^3 - 13x - 7$ has gradient 11 at two points. Find the coordinates of these points.	
3 Solve $3x^2 - 19x + 28 = 0$	
4 $f(x) = -3x - 3$ and $g(x) = x^2 - 9$. Solve $gf(x) = -8$.	
5 In the diagram, DE is parallel to BC. AD = 3 cm, DB = 9 cm and the area of triangle ADE is 4 cm^2. Work out the area of the trapezium DBCE. The diagram is not drawn accurately. 	

Day 96	IGCSE 10-a-day
6 The curve $y = 2x^2 - 5x - 4$ and the line $y = -3x$ intersect at two points A and B, where A has the smaller x coordinate. (a) Find the coordinates of A and B. (b) Find the gradient of the curve at A and at B.	
7 In a group of students, 55% are boys and the rest are girls. 35% of the boys and 25% of the girls walk to school. What percentage of all the students walk to school?	
8 A rectangle has area 82 cm^2, correct to 2 significant figures. Its length is 14 cm, correct to 2 significant figures. Work out the upper bound of the width of the rectangle. Give your answer correct to 3 significant figures. (Calculator)	
9 The tangent to the curve $y = x^3 - 4x^2 + 5x - 7$ at the point P where $x = 1$ meets the curve again at Q. Find the coordinates of Q.	
10 A is the point $(-3, 4)$ and B is the point $(5, -2)$. Find an equation of the perpendicular bisector of AB. Give your answer in the form $y = mx + c$.	