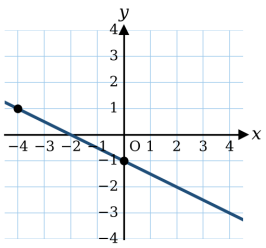
Day 99 **A Tier 10-a-day**

1 Find the equation of the straight line shown.
Give your answer in the form y = mx + c

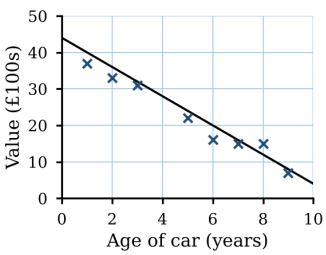


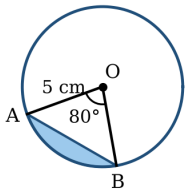
2 The exchange rate is £1 = CHF 1.10.
(Calculator)
Ella changes £300 into Swiss francs and spends CHF 165.
Ella changes the rest back into pounds at the same rate.
How much does Ella get back?

3 A bus travels at 4 m/s.
Work out this speed in kilometres per hour.

4 A triangle has sides of length 9 cm, 40 cm and 40 cm.
Is the triangle right-angled?
You must show your working.

5 The scatter graph shows the ages and values of some cars.
A line of best fit is drawn.
(a) Describe the correlation.
(b) Estimate the value, in £100s, of a car that is 7 years old.



Day 99	A Tier 10-a-day
6 The line L has equation $y = -3x + 6$ Find the equation of the line that is parallel to L and passes through the point $(4, -19)$.	
7 (a) Show that $0.\dot{9}\dot{6} = \frac{32}{33}$ (b) Hence write $1.\dot{9}\dot{6}$ as a mixed number in its simplest form.	
8 The diagram shows a circle with centre O and radius 5 cm. Angle AOB = 80°. (Calculator) Work out the area of the shaded segment. Give your answer to 3 significant figures. 	
9 The length and width of a rectangle are 15.9 cm and 10.3 cm. Each measurement is correct to 1 decimal place. Work out the upper bound for the area.	
10 A watch costs £378 including VAT at 20%. (Calculator) Work out the price of the watch before VAT is added.	