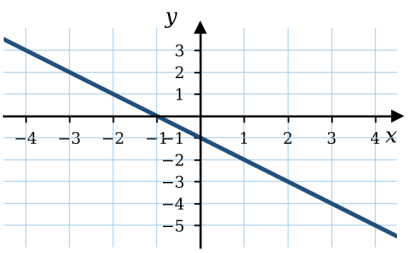
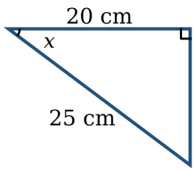
Day 90	B Tier 10-a-day
1 Work out (a) $\sqrt[3]{64} \times 13$ (b) the square root of 169	
2 (a) The point P(1, 5) is rotated 90° anticlockwise about the origin. Write down the coordinates of the image. (b) The point P(1, 5) is rotated 90° clockwise about the origin. Write down the coordinates of the image.	
3 In a survey, 16 people chose cycle. There were 30 people in the survey altogether. The results are shown in a pie chart. Work out the angle for cycle.	
4 Owen has $\frac{9}{10}$ of £50. Kofi has 20% of £40. Who has more money? You must show your working.	
5 The diagram shows a straight line. (a) Work out the gradient of the line. (b) Find the equation of the line. 	

Day 90 **B Tier 10-a-day**

6 An isosceles triangle has two equal sides of length (2x) cm and a third side of length (x − 2) cm.
The perimeter of the triangle is 53 cm.
Work out the value of x.

7 Solve $x^2 - 25 = 0$

8 Find the size of angle x. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



9 The length of a rectangle is 11 cm and its width is 20 cm.
Both measurements are correct to the nearest cm.
Work out the lower bound for the area of the rectangle.

10 The cumulative frequency graph shows the times taken by 40 students to complete a puzzle.
(a) Use the graph to estimate the median.
(b) Work out an estimate for the interquartile range.

