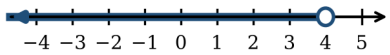
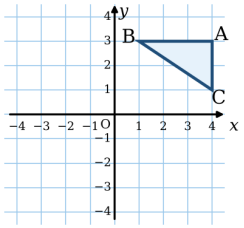
Day 22	B Tier 10-a-day
1 Write down the inequality shown on the number line. Use x for the variable.  	
2 Here is a list of numbers. 58, 93, 53, 64, 32, 28, 77, 22 From the list, write down (a) a prime number (b) a cube number	
3 The mean of 5 numbers is 25. Four of the numbers are 20, 30, 24, 26. Work out the fifth number.	
4 Two rectangles are joined to make a shape. The first is 10 cm by 5 cm. The second is 5 cm by 14 cm. Work out the total area of the shape.	
5 Solve $5p + 4 < 49$	

Day 22	B Tier 10-a-day

6 The diagram shows triangle ABC on a grid.
(a) Write down the coordinates of the image of A after a reflection in the line y = 1.
(b) Write down the coordinates of the image of C after a reflection in the line x = 1.



7 (a) Write $\frac{14}{25}$ as a decimal.

(b) Write $\frac{5}{6}$ as a recurring decimal.

For part (b), write down the first 8 decimal places and say which digits repeat.

8 The equation $x^3 + 3x = 87$ has a solution between 4 and 5. (Calculator)
Use trial and improvement to find this solution.
Give your answer correct to 1 decimal place.

9 In a sale, the price of a sofa is reduced by 40%. (Calculator)
Two weeks later it is reduced by a further 20% of the new price.
The final price is £24.
Work out the original price of the sofa.

10 A bag contains 3 red counters and 6 blue counters.
Kira takes one at random and does not replace it, then takes a second.
Work out the probability that both are red.