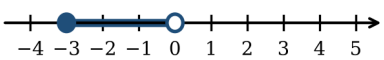
Day 165	B Tier 10-a-day
1 Work out (a) $8^2 - (22 - 7) \times 2$ (b) $2 \times (4 + 20) \div 6$	
2 A hiker walks 12 km east and then 16 km south. Work out the straight line distance from the start to the finish.	
3 Sam tests a drawing pin landing point up. In 500 trials it happens 100 times. Estimate how many times it will happen in 800 trials.	
4 ABCD is a rhombus. Angle DAB = 110°. (a) Write down the size of angle BCD. (b) Work out the size of angle ABC.	
5 (a) Write down the inequality shown on the number line. (b) Write down all the integers that satisfy the inequality. 	

Day 165	B Tier 10-a-day
6 100 frogs in a lake are caught, tagged and returned to the lake. Later, a sample of 30 frogs is caught and 6 of them are tagged. Estimate the total number of frogs in the lake.	
7 A straight line has gradient 2 and passes through the point $(5, -5)$. Find the equation of the line.	
8 In a test, the mean mark of 12 boys is 57. The mean mark of 8 girls is 42. Work out the mean mark of all 20 students.	
9 Estimate the value of $\frac{9.05}{5.19} + 9.05$ Show your rounding to 1 significant figure.	
10 In triangle PQR, PQ = 9 m, QR = 7 m and angle PQR = 75°. (Calculator) Work out the area of the triangle. Give your answer correct to 1 decimal place.	