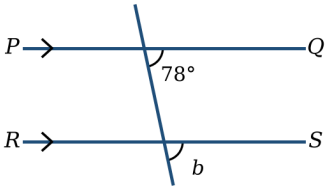
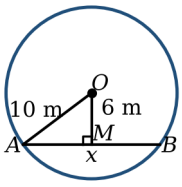
Day 82	B Tier 10-a-day
1 The temperature on a mountain at 6 am is −8°C. (a) The temperature rises by 8°C. Work out the new temperature. (b) The highest temperature one day was 11°C and the lowest was −7°C. Work out the difference.	
2 In the diagram, PQ is parallel to RS. (a) Work out the size of angle b. (b) Give a reason for your answer. The diagram is not drawn accurately. 	
3 The ratio of red to blue counters in a bag is 7 : 5. What fraction of them are red?	
4 Make h the subject of the formula V = lwh	
5 A and B are two points 20 cm apart. A point P is always the same distance from A and from B. Describe the locus of the point P.	

Day 82	B Tier 10-a-day
6 Work out (a) 8.5 × 0.2 (b) 0.4 × 5	
7 A straight line has gradient 5 and passes through the point (−2, 8). Find the equation of the line.	
8 A water tank is $\frac{1}{5}$ full. 33 litres of water are added. The water tank is now $\frac{1}{2}$ full. Work out the capacity of the water tank.	
9 A circle has centre O and radius 10 m. AB is a chord and M is the midpoint of AB. OM is perpendicular to AB. Work out the value of x. The diagram is not drawn accurately. 	
10 In a bag of counters, the ratio of red to blue is 4 : 3. The ratio of blue to yellow is 5 : 6. Write down the ratio red : blue : yellow.	