Day 141	B Tier 10-a-day
1 Priya buys 5 sandwiches at £2.35 each and 4 magazines at 85p each. She pays with a £20 note. Work out how much change she gets.	
2 The stem and leaf diagram shows 11 values. (a) Find the median. (b) Work out the range. **Stem** **Leaf** 2 | 1 2 6 3 | 2 3 7 4 | 1 2 5 6 8 Key: 2 | 1 means 21	
3 A rectangular wall measures 11 m by 9 m. A rectangle measuring 4 m by 2 m is cut out. Work out the area that is left.	
4 The exchange rate is £1 = $1.35. (Calculator) (a) Change £350 to dollars. (b) Change $243 to pounds (£).	
5 $g(x) = 4x^2 + 6$ (a) Work out g(3) (b) Work out g(−2)	

Day 141 **B Tier 10-a-day**

6 Triangle ABC has sides of 6 mm and 10 mm, and an angle of 55° that is not between them.
Triangle XYZ has sides of 6 mm and 10 mm, and an angle of 55° between them.
Are the two triangles congruent?
Give a reason for your answer.

7 The table shows the lengths of some leaves.
(a) Write down the modal class.
(b) Work out an estimate for the mean.

Length, l (cm)	Frequency
$10 < l \leq 30$	7
$30 < l \leq 50$	5
$50 < l \leq 70$	4
$70 < l \leq 90$	3
$90 < l \leq 110$	11

8 The length of a rectangle is 20 cm and its width is 29 cm.
Both measurements are correct to the nearest cm.
Work out the lower bound for the area of the rectangle.

9 Solve the simultaneous equations
$3x + 4y = 20$
$3x + 2y = 16$

10 Triangle ABC is isosceles with AB = AC = 11 m. (Calculator)
The base BC = 6 m.
Work out the size of angle ABC.
Give your answer correct to 1 decimal place.