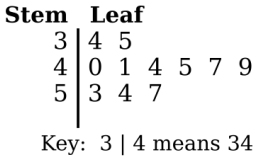
Day 117	B Tier 10-a-day
1 (a) Convert 750 mm to m. (b) Convert 50 000 cm^2 to m^2.	
2 I think of a number. I add 15 and then multiply the result by 3. The answer is 63. Work out my number.	
3 The stem and leaf diagram shows 11 values. (a) Find the median. (b) Work out the range.  	
4 Solve $7y + 7 \leq 63$	
5 £1 = 1.5 dollars A holiday costs $30. Work out the cost in pounds.	

Day 117 **B Tier 10-a-day**

6 Work out $3\frac{5}{6} + 1\frac{1}{2}$

Give your answer as a mixed number.

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

Mass, m (kg)	Frequency
$0 < m \leq 5$	3
$5 < m \leq 10$	5
$10 < m \leq 15$	9
$15 < m \leq 20$	8

8 Solve $x^2 - 144 = 0$

9 A cylinder has radius 3 m and height 15 m.
(Calculator)
It is closed.
Work out the total outside surface area.
Give your answer correct to 1 decimal place.

10 In a sale, the price of a sofa is reduced by 30%.
(Calculator)
Two weeks later it is reduced by a further 50% of the new price.
The final price is £70.
Work out the original price of the sofa.