Day 192	B Tier 10-a-day
1 (a) Convert 4.5 tonnes to kg. (b) Convert 2 cm^2 to mm^2.	
2 Work out (a) $5^2 - (8 - 6) \times 4$ (b) $5 + 3 \times 5^2$	
3 The mean of 5 numbers is 30. Four of the numbers are 27, 33, 29, 31. Work out the fifth number.	
4 The first term of a sequence is 4. The term-to-term rule is: multiply by 2 and then add 4. Work out the 4th term.	
5 Work out (a) $-7 - (-2)$ (b) $(-5) \times 5$	

Day 192 **B Tier 10-a-day**

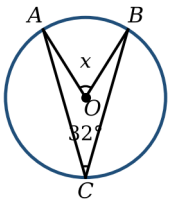
6 A stratified sample of 60 students is taken from the 500 students in the table.
Work out how many students should be sampled from Group A.

Group	Students
Group A	300
Group B	100
Group C	100

7 Leah has $\frac{1}{5}$ of £20.

Chloe has 25% of £60.
Who has more money? You must show your working.

8 A, B and C are points on a circle, centre O.
Angle ACB = 32°.
Work out the size of angle AOB, marked x.
Give a reason for your answer.
The diagram is not drawn accurately.



9 Solve the simultaneous equations
$4x - 4y = -16$
$x + 2y = 17$

10 Here are the times, in seconds, taken to run 100 m.
46, 41, 63, 43, 66, 64
(a) Find the median.
(b) Work out the range.