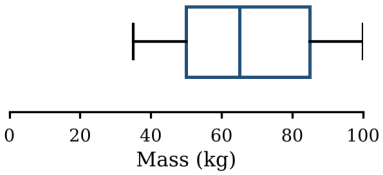
Day 103	A Tier 10-a-day

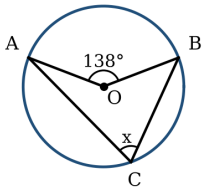
1 Work out $(7.2 \times 10^{-6}) \div (6 \times 10^{-3})$
Give your answer in standard form.

2 A mechanic charges £55 plus £60 for each hour of work.
(a) Write a formula for the total cost, £C, after t hours.
(b) Aisha pays £775 in total. Work out the number of hours.

3 The box plot shows the masses, in kg, of the parcels in delivery A.
(a) Write down the median and the interquartile range.
For delivery B the median is 80 and the interquartile range is 45.
(b) Compare the distributions of the two deliveries.



4 A, B and C are points on a circle with centre O.
Angle AOB = 138°.
Work out the size of angle x.
Give a reason for your answer.

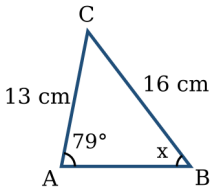


5 A straight line passes through the points (−1, 0) and (0, 2).
Find the equation of the line.

Day 103 **A Tier 10-a-day**

6 Dev buys a phone for £240 and sells it for £120.
Work out Dev's percentage loss.

7 Work out the size of angle x. (Calculator)
Give your answer to 1 decimal place.
The diagram is not drawn accurately.



8 Jug A contains 36 litres of a mixture of red paint and white paint in the ratio 5 : 1.
Jug B contains 18 litres of a mixture of red paint and white paint in the ratio 7 : 2.
The contents of both jugs are mixed together.
Work out the ratio of red paint to white paint in the mixture. Give your answer in its simplest form.

9 Make x the subject of $y = \frac{2x + 4}{x - 3}$

10 Work out the size of angle x. (Calculator)
Give your answer to 1 decimal place.
The diagram is not drawn accurately.

