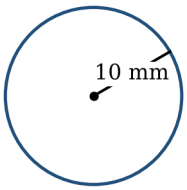
Day 160	B Tier 10-a-day
1 Triangle DEF is isosceles with DE = DF. Angle EDF = 20°. Work out the size of angle DEF.	
2 Solve $4y + 4 = 3y + 8$	
3 A club has 9 members. They choose a captain and a vice-captain from the members. The two jobs must be done by different people. How many different ways can the jobs be given out?	
4 An open box (no lid) is a cuboid measuring 9 cm by 4 cm by 4 cm. The base is 9 cm by 4 cm. Work out the total area of card needed to make the box.	
5 Simplify fully $\frac{15x^2}{5x}$	

Day 160 **B Tier 10-a-day**

6 The table shows the books read by each member of a club in a month.
Work out the mean.

Books	1	2	3	4	5
Frequency	1	5	6	2	8

7 The diagram shows a circle with radius 10 mm.
Work out the circumference of the circle.
Give your answer in terms of π.
The diagram is not drawn accurately.



8 A cyclist travels at 80 km/h for 1.5 hours and then at 20 km/h for 1.5 hours.
Work out its average speed for the whole journey.

9 There are 3.1×10^4 cells in a sample.
The number doubles every day.
How many are there after 4 days?
Give your answer in standard form.

10 Write these numbers in order of size.
Start with the smallest.
9.4×10^6, 920,000, 7.2×10^{-1}, 900