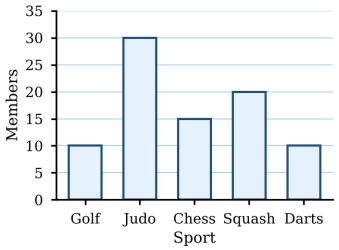
Day 360 **B Tier 10-a-day**

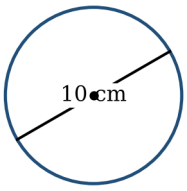
1 The bar chart shows some information.
(a) How many more were there for Squash than for Darts?
(b) Work out the total of all five bars.



2 (a) The point P(−5, −4) is rotated 90° anticlockwise about the origin. Write down the coordinates of the image.
(b) The point P(−5, −4) is rotated 180° about the origin. Write down the coordinates of the image.

3 Write 525 as a product of its prime factors.
Give your answer in index form.

4 The diagram shows a circle with diameter 10 cm. (Calculator)
Work out the area of the circle.
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



5 Line L has equation y = 5x − 3
Line M is parallel to line L and passes through the point (5, −2).
Find the equation of line M.

Day 360 **B Tier 10-a-day**

6 The table shows the goals scored in each match by a team.
Work out the mean.

Goals	1	2	3	4	5
Frequency	6	4	4	1	3

7 Work out $3\frac{3}{4} + 3\frac{1}{3}$
Give your answer as a mixed number.

8 A drum has radius 5 m and height 15 m. (Calculator)
It is open at one end (no lid).
Work out the total outside surface area.
Give your answer correct to 1 decimal place.

9 A paddling pool is $\frac{1}{4}$ full.
50 litres of water are added.
The paddling pool is now $\frac{1}{2}$ full.
Work out the capacity of the paddling pool.

10 Show that $(2n + 9)^2 - (2n - 9)^2$ is a multiple of 72 for any whole number n.