Day 127 **B Tier 10-a-day**

1 Work out the sum of the interior angles of a dodecagon.

2 n is an integer.
Write down all the values of n for which
$1 \leq n \leq 7$

3 Write 94.4443
(a) correct to 2 decimal places,
(b) correct to 3 significant figures.

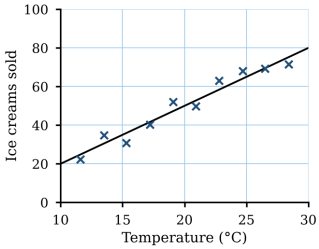
4 A cylinder has radius 4 m and height 18 m.
Work out its volume.
Give your answer in terms of π.

5 Complete the table of values for $y = x^2 + 2x - 3$

x	−2	−1	0	1	2	3
y				0	5	

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6 The scatter graph shows information about temperature and ice creams sold.
A line of best fit is drawn.
(a) Describe the correlation.
(b) Use the line of best fit to estimate the ice creams sold when temperature is 22.



7 Sam stands 26 m from the base of a tree on level ground. (Calculator)
The angle of elevation of the top of the tree is 42°.
Work out the height of the tree.
Give your answer correct to 1 decimal place.

8 The price of a laptop is £60.
The price is first increased by 40%, then the new price is increased by 20%.
(a) Work out the final price.
(b) Work out the overall percentage increase in the price.

9 A takeaway sells burgers and portions of chips.
4 burgers and 2 portions of chips cost £22.
3 burgers and 2 portions of chips cost £17.
Work out the cost of one burger and the cost of one portion of chips.

10 Maya invests £2,000 in an account paying 4% compound interest per year. (Calculator)
Work out the value of her investment after 2 years.