Day 129 **B Tier 10-a-day**

1 Write down the number of faces and vertices of a hexagonal prism.

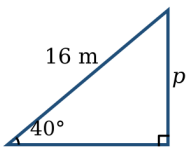
2 Here is a list of numbers.
91, 44, 60, 72, 36, 88, 59, 90
From the list, write down
(a) a factor of 60
(b) an odd number that is not prime

3 I think of a number.
I divide it by 3 and then add 2.
The answer is 5.
Work out my number.

4 The table shows the goals scored in each match by a team.
(a) Write down the mode.
(b) Work out the median.

Goals	2	3	4	5	6
Frequency	9	3	5	1	3

5 Work out the length of p. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



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6 Solve $5x - 1 = 6$ Give your answer as a fraction in its simplest form.	
7 Nia and Aisha share some money in the ratio 5 : 2. Nia gets £9 more than Aisha. Work out the total amount of money.	
8 Chloe invests £1000 for 2 years. The account pays 3.5% simple interest per year. (a) Work out the interest earned each year. (b) Work out the total amount in the account after 2 years.	
9 Triangle XYZ is isosceles with XY = XZ = 18 cm. (Calculator) The base YZ = 32 cm. Work out the size of angle XYZ. Give your answer correct to 1 decimal place.	
10 Show that $(2n + 9)^2 - 81$ is a multiple of 4 for any whole number n.	