Day 77 **B Tier 10-a-day**

1 Work out the value of $31 - x^2$ when $x = -6$

2 Here are the temperatures at noon in a town.
17, 17, 30, 9, 28, 26
(a) Find the median.
(b) Work out the range.

3 The bearing of Q from P is 073°.
Work out the bearing of P from Q.

4 $A = 2^3 \times 5$
$B = 2 \times 5 \times 7^2$
Write down, as a product of prime factors,
(a) the HCF of A and B
(b) the LCM of A and B

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

Books	2	3	4	5	6
Frequency	7	4	8	4	2

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6 A cereal box measures 3 cm by 6 cm by 5 cm. Work out the total surface area.	
7 F is directly proportional to m. When m = 10, F = 25. Find a formula for F in terms of m.	
8 Write each number in standard form. (a) 3,200,000 (b) 0.00024	
9 Line L has equation $y = -4x - 5$ Line M is parallel to line L and passes through the point (4, 6). Find the equation of line M.	
10 Triangle XYZ is isosceles with XY = XZ = 8 cm. (Calculator) The base YZ = 10 cm. Work out the size of angle XYZ. Give your answer correct to 1 decimal place.	