Day 261 **B Tier 10-a-day**

1 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	6	5	1	1	8

2 The nth term of a sequence is $9n - 3$
(a) Work out the 5th term.
(b) Is 244 a term in the sequence? You must show how you get your answer.

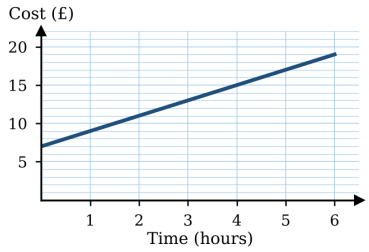
3 A cereal box measures 11 cm by 6 cm by 7 cm.
Work out the total surface area.

4 A train leaves at 10:44.
It arrives at 14:39.
How long does the journey take?

5 PQRS is an isosceles trapezium with PQ parallel to SR.
Angle SPQ = 84°.
(a) Write down the size of angle PQR.
(b) Work out the size of angle PSR.

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6 A company hires out bikes. There is a fixed charge plus a cost for each hour.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each hour.



7 The ratio of sweet to salted packets of crisps is 3 : 7.
What percentage of them are sweet?

8 A water tank is $\frac{1}{4}$ full.
98 litres of water are added.
The water tank is now $\frac{3}{5}$ full.
Work out the capacity of the water tank.

9 A bag contains 5 mint sweets and 7 toffee sweets.
Holly takes one at random and does not replace it, then takes a second.
Work out the probability that the two are different colours.

10 A theme park sells adult tickets and child tickets.
4 adult tickets and 3 child tickets cost £85.
1 adult ticket and 3 child tickets cost £28.
Work out the cost of one adult ticket and the cost of one child ticket.