

Day 4

Reasoning Questions

Spot the mistake

Beth and Natasha have both completed the same multiplication. Who has the correct answer?

What was the misconception that caused the error?

Beth				Natasha			
2	3	4		2	3	4	
x		6		x		6	
<hr/>				<hr/>			
1	2	0	4	1	4	0	4

Charlie and his mum were having a reading competition.

In one month, Charlie read 814 pages.



His mum read 4 times as many pages as Charlie.

- How many pages did they read altogether?
- How many less pages than his Mum did Charlie read?

All the Digits

Age 7 to 11 ★★

This represents the multiplication of a 4-figure number by 3.

$$\begin{array}{r} \star \star \star \star \\ \times \quad \quad \quad 3 \\ \hline \star \star \star \star \star \end{array}$$

The whole calculation uses each of the digits 0 – 9 once and once only.

The 4-figure number contains three consecutive numbers, which are not in order. The third digit is the sum of two of the consecutive numbers.

The first, third and fifth figures of the five-digit product are three consecutive numbers, again not in order. The second and fourth digits are also consecutive numbers.

Can you replace the stars in the calculation with figures?