Q1 Megan says, "If I can work out the total of 534 and 275 in my head, I can work out the total of 5,340 and 2,750 in my head."

Explain why Megan is correct.

See mark scheme for examples

1 mark

Q2 A number of adults and children were asked whether they prefer chocolate chip cookies or fudge.

The total number of children asked was double the number of adults.

60 people were asked altogether.

17 children prefer chocolate chip cookies to fudge.

The number of adults that prefer fudge to chocolate chip is 9 fewer than the number of children who prefer it.

Use the information above to complete the table.

	Number of adults	Number of children	TOTAL
Chocolate Chip	6	17	23
Fudge	14	23	37
TOTAL	20	40	60

2 marks

Q3 Caroline uses the short multiplication method to work out the answer to 462 × 4.

Anisa says, "That looks like the column method I sometimes use to add large numbers together!"

What is the **same** and what is **different** about both methods? Write two answers for each.

	Similarities	Differences
1		
2		

See mark scheme for examples

2 marks

	Requirement	Mark	Additional guidance
Q1	Accept any answer that explains that 534 + 275 = 809 and that 5,340 + 2,750 must be the same answer multiplied by 10 (8,090).	1	
Q2		2	

	Number of adults	Number of children	TOTAL
Chocolate Chip	**6**	**17**	**23**
Fudge	**14**	**23**	**37**
TOTAL	**20**	**40**	**60**

Award **ONE** mark for 5 or more correct numbers.

	Requirement
Q3	Accept any **TWO** statements for each heading. Award **ONE** mark for two or three distinct comparisons and both marks for four. For example: **Similarities:** – They both need to be written vertically with the digits in the right columns. We work from right to left when working out the answer in both.