

- 1) Identify the missing digits in these addition and subtraction calculations.



$$\begin{array}{r} 4 \ 5 \ \square \ 8 \ 5 \ 7 \\ + \square \ 5 \ 2 \ 6 \ \square \ 8 \\ \hline 8 \ 0 \ 3 \ \square \ 0 \ 5 \end{array}$$

$$\begin{array}{r} \square \ 8 \ 5 \ 6 \ 4 \ 2 \ \square \\ + \ 2 \ 2 \ \square \ \square \ 9 \ \square \ 9 \\ \hline 6 \ 0 \ 6 \ 5 \ 3 \ 6 \ 5 \end{array}$$

$$\begin{array}{r} 4 \ 5 \ 0 \ 9 \ 0 \ 3 \\ - \square \ 8 \ \square \ 6 \ \square \ 2 \\ \hline 6 \ 8 \ 2 \ 6 \ 1 \end{array}$$

$$\begin{array}{r} \square \ 8 \ 2 \ 0 \ 4 \ 6 \ 2 \\ - \ 4 \ \square \ 8 \ 9 \ \square \ 7 \ 3 \\ \hline 2 \ 0 \ 3 \ 1 \ 0 \ 8 \ \square \end{array}$$

- 2) A shop has £234 654 worth of stock. They sell £78 962 worth of stock in the first week and £129 875 worth in the second week. What is the value of the stock that is left over?
- 3) Megan wants to buy two jumpers that cost £9.75 each and a coat that costs £29.59. She has saved £26.40 so far. How much more does Megan need to save to buy the clothes that she wants?
- 4) Usman's parents are buying a table, a bed and a sofa. They have a budget of £3000. How much of their budget is left after buying the new furniture? Make sure you choose the most efficient methods.



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- 1) Three children are discussing the most efficient way to answer this question:



$$100\ 099 - 9899$$

Each child has made an error in their method. Explain the error that each child has made and how you would correct it.



**Dylan**

I think that the best way to solve this calculation is to place it in columns and complete a column subtraction.

$$\begin{array}{r} \overset{0}{\cancel{X}}\ 0\ 0\ \overset{1}{0}\ 9\ 9 \\ - \quad\quad 9\ 8\ 9\ 9 \\ \hline 0\ 0\ 9\ 2\ 0\ 0 \end{array}$$



**Aleena**

I think that the most efficient way to solve the problem is to use mental methods. I would take 10 000 away from 100 000 and add 101 back on. That would leave me with 90 101.



**Eva**

I would use mental methods to answer this question. I would take 99 from the 100 000 first, which would then leave me with 100 000 - 9800 to work out. The answer to that is 90 020.

- 2) Correct the errors that have been made in this subtraction calculation.

$$\begin{array}{r} 2\ 1\ 0\ 9\ \overset{3}{\cancel{4}}\ \overset{1}{\cancel{0}}\ 7 \\ - 1\ 4\ 6\ 9\ 2\ 6\ 9 \\ \hline 1\ 3\ 6\ 0\ 1\ 4\ 2 \end{array}$$

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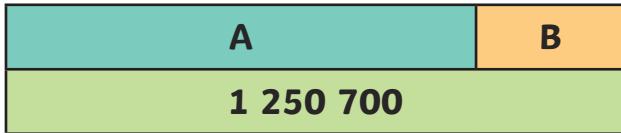
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- 1) Use this bar model and the clues below to find the possible values of A and B. Add in Find 3 possible pairs of numbers.



**A**

It is an even number.  
It has a digit sum less than 20.  
It is between 700 000 and 1.1 million.

**B**

It has a digit sum of 14.  
It is a multiple of 10.

**A** =

**B** =

- 2) Using the digits 1-9, can you make the given target number using addition? You may only use each digit twice.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	+	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	=	1	9	4	6
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- 3) Can you use subtraction and the digits 1-9 to make this target number? You may only use each digit twice.

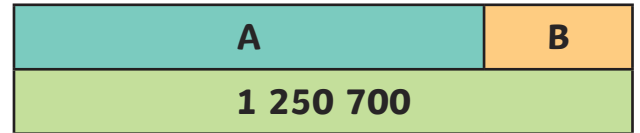
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	=	6	7	8	6
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- 4) Choose your own four-digit target number and try and make it using addition and subtraction calculations and the digits 1-9.

You may only use each digit twice.

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