

Problem Solving and Reasoning Challenges

Kassie is working out $406 - 289$

Here is her working out:

$$\begin{array}{r} \overset{3}{\cancel{4}}0\overset{1}{6} \\ - 289 \\ \hline 7 \end{array} \qquad \begin{array}{r} \overset{2}{\cancel{4}}\overset{3}{0}\overset{1}{6} \\ - 289 \\ \hline 027 \end{array}$$

Explain her mistake.

What should the answer be?

Work out the missing digits.

	H	T	O
	5	?	3
-	2	1	8
	3	1	5

	H	T	O
	?	0	?
-	2	?	8
	2	4	6

I completed an addition and then used the inverse to check my calculation.

When I checked my calculation, the answer was 250.

One of the other numbers was 355.

What could the calculation be?

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = 250$$



Mo

If I add two numbers together, I can check my answer by using a subtraction of the same numbers after
e.g. to check $23 + 14$,
I can do $14 - 23$

Do you agree? Explain why.