

Lesson Four

I can subtract two 4-digit numbers - no exchange

Problem solving and reasoning

Today's tasks involve doing lots of reasoning and problem solving, using your knowledge of subtracting two 4-digit numbers.

These next slides will be showing you how you should approach these types of questions and will help you with the activities set for this lesson.

Reasoning-

Curtis has subtracted 2,072 from 7,095. He has put the numbers into the place value chart to show his answer.

Th	H	T	O
5	0	2	7

Is he correct? Explain why.

Top tips:

Read the question.

Identify what it is asking you to find out.

Think about how you would find it out.

Work it out.

Answer the question, do you think they're correct.

Don't forget it's asked you to 'explain', this means you have to tell me why you agree or don't agree.

Curtis has *subtracted 2,072 from 7,095*. He has put the numbers into the place value chart to show his answer.

Th	H	T	O
5	0	2	7

Is he correct? Explain why.

Subtract!

$$7095 - 2072.$$

What answer do you get?

Is Curtis correct?

Answer

Your answer should be something like..

Is he correct? Explain why.

Curtis is incorrect because he has added the ones instead of subtracting them. The answer should be 5,023.

Problem Solving-

Complete the calculation below.

You must include 3 and 1.

Top tip:

Read what the question is asking you to do.

Look at the problem and identify anything you spot straight away.

	Th	H	T	O
	5	<input type="text"/>	7	6
-	<input type="text"/>	<input type="text"/>	6	<input type="text"/>
	3	2	1	<input type="text"/>

Answer:

There are various answers for this problem, not just one solution.

You may have some of these answers below.

Various answers, for example:

$$5,376 - 2,163 = 3,213$$

$$5,376 - 2,163 = 3,213$$

$$5,376 - 2,162 = 3,214$$

$$5,376 - 2,161 = 3,215$$

	Th	H	T	O
	5	3	7	6
-	2	1	6	5
	3	2	1	1

Reasoning

Explain the mistake in the calculation below.

Top tips:

Work at the calculation as you normally would.

What is the difference between your answer and the answer shown in the question?

Explain it.

	Th	H	T	O
	5	9	5	7
-		9	2	2
	5	9	3	5

Answer:

Ensure you explain your answer fully.

	Th	H	T	O
	5	9	5	7
-		9	2	2
	5	9	3	5

The hundreds column is incorrect because it has not been subtracted. The answer should be 5,035.

The activity sheet for lesson 4 has several problem solving and reasoning questions. Try your best to complete them, think back to the top tips if you are stuck.

There is also an additional challenge at the end to try and conquer if you wish.