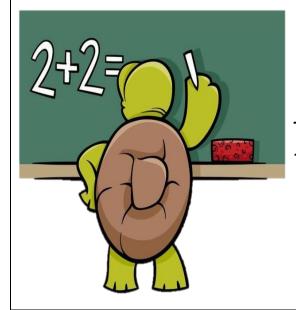


ADDITION and SUBTRACTION KNOWLEDGE ORGANISER Year 5

Overview

Addition Methods – Two 5-digit Numbers

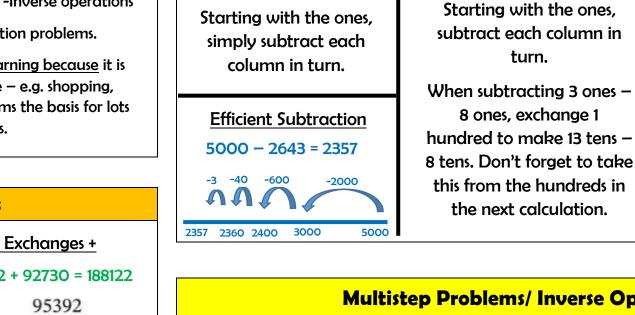
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Addition and Subtraction we learn:

-Add two 4-digit numbers (one and more exchanges) -Add/subtract whole numbers with more than 4 digits -Subtract two 4-digit numbers (one and more exchanges) -Round to estimate & approximate -Inverse operations -Multi-step addition and subtraction problems. Addition and Subtraction is useful learning because it is

used in many areas of everyday life - e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.



No Exchange

99882 - 27582 = 72300

99882

72300

- 27582

<u>No Exchange</u>	<u>1 Exchange</u>	<u>2 Exchanges +</u>					
44514 + 13413 = 57927 44514 + 13413 57927	$21351 + 21700 = 43051$ $- \frac{21351}{+ 21700}$ $- \frac{43051}{1}$	95392 + 92730 = 188122 95392 + 92730 188122 1 1 1		Multister ep Proble		<mark>ms/ Inv</mark>	ver:
Starting with the ones, simply add each	Starting with the ones, add each column in turn. When calculating 3 plus 7 hundreds,	Starting with the ones, add each column in turn. Exchange tens, hundreds,	£14.85 £22.74	£7.89	? £7.26		
Be sure to check over your answer for careless calculation errors.	the answer is 10 hundreds (so one thousand). Place 0 hundreds as the answer and 1 thousand under thousands answer. Include this in the next calculation.	or thousands as required. Don't forget to add the exchanged number into the next calculation.	l buy two toys, c How much c £14.85 +	-	eceive? 74		l <u>r</u> c th

				Key Vocab	ulary		
Total	Altogether	Difference	Exchange	Column Method	Estimate	Inverse	Number Facts



Subtraction Methods – Two 5-digit Numbers

8673 - 1448 = 7225	8673	- 1448 =	= 7225
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1 Exchange

583¹2¹4 - 27218 3 1 1 0 6

2 Exchanges +

61069 - 36827 = 24242

5 ø 10 10 6 9 - 36827 2 4 2 4 2

Starting with the ones, subtract each column in turn.

Exchange tens, hundreds, thousands as needed.

Don't forget to subtract the exchanged number from the next calculation.

rse Operations

36, 161

Inverse Operations

Use the inverse to check.

54, 959

18,798

For example, to check 54,959 - 36,161 = 18,798

Use 36.161 + 18.798 = 54.959

Inverse can be used to find the missing number.

e.g. I have a number, I subtract 48, and then double the resulting number to get 28. What is the original number? Start with 28. Divide by 2 = 14. Add 48. The original number was 62.

Place Value

Complex