

Mental Strategies

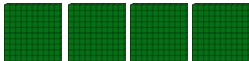
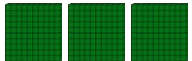


1) Complete the calculations.

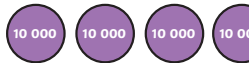
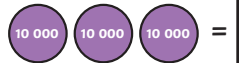
a) 4 ones + 3 ones = _____ ones  +  =

b) 4 tens + 3 tens = _____ tens  +  =

c) 4 hundreds + 3 hundreds = _____ hundreds

 +  =

d) 4 ten thousands + 3 ten thousands = _____ ten thousands

 +  =

2) Use Abi's fact to help complete the calculations.

a) $150 - 60 =$ _____

b) $1500 - 600 =$ _____

c) $15\ 000 - 6000 =$ _____

d) $150\ 000 - 60\ 000 =$ _____

I know that
 $15 - 6 = 9$.

Abi



3) Use the place value chart to complete the calculations.

TTh	Th	H	T	O
				
				
				

a) $34\ 560 + 1000 =$

d) $34\ 560 - 20 =$

b) $34\ 560 - 300 =$

e) $34\ 560 + 4100 =$

c) $34\ 560 + 1120 =$

f) $34\ 560 - 2010 =$



Mental Strategies



- 1) Zeke and Elena are discussing mental strategies. Do you agree with their statements? Explain your reasoning.



Zeke

To add 999, you can add 1000 and then subtract 1.

To subtract 299, you can subtract 300 and then subtract 1.



Elena

- 2) Are these statements true or false? Prove it.

a) $4270 + 99 = 4270 + 100 + 1$

b) $19\ 650 - 399 = 19\ 650 - 400 + 1$

c) $32\ 510 - 990 = 32\ 510 - 1000 + 10$

d) $390 + 17\ 680 = 17\ 680 + 400 - 9$

- 3) Identify and explain the mistakes.



Amrit

$300 + 900 = 1200$ so
 $4310 + 900 = 13\ 310$.



$2000 - 864 = 1999 - 862$

Hari



Mental Strategies



1) Can you work out how many team points each child earned using the clues?



I earned 399 fewer team points than Joseph.

Emily

I earned 48 more team points than Felix.



Bartek

I earned 999 fewer team points than Emily.

I earned 63 401 team points.



I earned 1099 more team points than Joseph.

Drew



Felix



Joseph

2)

a) Find the value of the missing digits.

$$\boxed{}06 + 20\boxed{} = 7\boxed{}8$$

b) Write a missing digits problem for a partner to solve.

c)

0	2	5	6	7	8
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Use the digit cards to write addition and subtraction calculations and their answers. Each number should have the same number of digits and include at least one zero. The digit cards can be used more than once. Find five possibilities.

