

To be able to use mental strategies for addition and subtraction



Starter:

Write the number that is

- a) One more than the number represented in the place value chart
- b) One hundred less than the number represented in the place value chart
- c) One thousand more than the number represented in the place value chart

TTh	Th	H	T	O
4	3	1	2	0

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Activity 1:

Solve the calculations.

- a) 5 thousands + 6 thousands
- b) 6 hundreds – 3 hundreds
- c) 4 ten thousands – 2 ten thousands
- d) 9 tens + 5 tens

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Activity 2:

Use the given facts to solve the calculations.

- a) If $12 + 7 = 19$, what is the answer to $190 - 120$?
- b) If $18 - 11 = 7$, what is the answer $110 + 70$?

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Activity 3:

Sketch your own place value chart or number line to help you solve the calculations:

TTh	Th	H	T	O



- a) $12,659 + 300 =$
- b) $12,659 - 2,200 =$
- c) $12,659 + 10,000 =$
- d) $12,659 - 3,000 =$
- e) $12,659 + 50 =$

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Activity 4:

Match the calculation with the correct answer. Remember to use partitioning to help solve these using a mental strategy.

$23,540 - 1,200$	$23,240$
$21,306 + 1,040$	$22,340$
$25,350 - 2,110$	$22,346$
$20,200 + 3,220$	$23,420$

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Activity 5:

Which of these calculations have correct answers?

- a) $2,580 - 99 = 2,479$
- b) $16,831 + 99 = 16,930$
- c) $123,570 - 99 = 123,471$
- d) $185,582 + 99 = 185,600$
- e) $56,826 - 99 = 56,726$
- f) $176,395 - 99 = 176,296$

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Activity 6:

$306 + 99 =$

$30,600 + 9,900 =$

What do you notice about the calculations and the answers?

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Evaluation:

When adding thousands to any number, the only digit that will change will be the one in the thousands column.



Is Astrobee's statement sometimes, always or never true?
Explain your answer.