

To be able to add and subtract integers



**Starter:**

What's the same? What's different?



three million, seven hundred and twenty-four thousand, one hundred and thirty-two

Explain your answer.

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**Activity 1:**

Complete the calculations below:

|   | TTH | TH | H | T | O |
|---|-----|----|---|---|---|
|   | 4   | 2  | 7 | 4 | 8 |
| + | 4   | 9  | 1 | 9 | 7 |
|   |     |    |   |   |   |
|   |     |    |   |   |   |

|   | M | HTh | TTh | Th | H | T | O |
|---|---|-----|-----|----|---|---|---|
|   | 9 | 5   | 6   | 5  | 4 | 8 | 5 |
| - | 7 | 2   | 9   | 3  | 2 | 4 | 8 |
|   |   |     |     |    |   |   |   |
|   |   |     |     |    |   |   |   |

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**Activity 2:**

Solve the word problems below:

1. An antique vase sold at an auction for £550,000. It was damaged when it was delivered and has lost £199,000 in value. How much is it worth now? Which strategy did you use?
2. The price of a 4-bedroom beach house in Bella Vista was £850,000 last year. Prices have dropped by £249,999 over the past 12 months. How much would the same beach house cost today? Which strategy did you use?

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**Activity 3:**

What are the missing digits below?

|   | TTH | TH | H | T | O |
|---|-----|----|---|---|---|
|   | 6   | 3  |   | 4 | 9 |
| + | 3   |    | 9 | 4 |   |
|   |     | 9  | 4 |   | 4 |
|   |     |    |   |   |   |

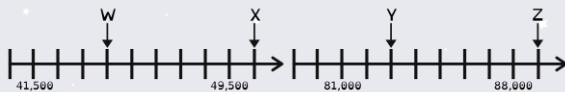
|   | TTH | TH | H | T | O |
|---|-----|----|---|---|---|
|   | 5   |    | 3 | 0 |   |
| + |     | 8  | 5 |   | 5 |
|   | 9   | 4  |   | 1 | 0 |
|   |     |    |   |   |   |

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**Activity 4:**

Look at the number lines below.



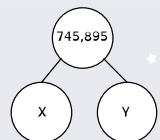
- What is the difference between W and Y?
- What is the difference between W and Z?
- What is the difference between X and Y?
- What is the difference between X and Z?

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**Activity 5:**

Look at the part-whole model below.



X is an odd number that rounds to 600,000 to the nearest 100,000. It has a digit total of 11.

Y is an even number that rounds to 130,000 to the nearest ten thousand. It has a digit total of 27.

How many combinations of X and Y can you find?

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Evaluation:



When adding lots of  
hundred thousands  
together, you exchange  
for a million.

Is Astrobee's statement always, sometimes or never true?  
Provide examples to help explain your answer.