LINEAR ABACUS

Additive Thinking

INFORMATION CARD TRIPLE 27

Triple 27 is linked to the comparison of two whole numbers: 56 and 39. Where the numeral 56 and 39 represent "count numbers". The numeral 17 represents the "verb-number" which is a relation between the count numbers.

For this triple, students will only be given the model and will need to:

- Write down the three numerals used in the Additive Triple and explain the colour-coding system. In this example, they need to solve for the larger count-number. This is linked to one of the character's totals.
- Write the additive triple: which includes 3 related simple number sentences.
- Write their own word problem to match the model. In the image two characters are shown, which means they need to use the **I have/you have** structure, which includes two actors and shows changes through space. The count-numbers in this image link to the girls bouquet of flowers.
- Use the Linear Abacus™ to model each additive situation and make sense of the word problem and calculation.

This task card can be used as a formative assessment piece. It can be matched with a rubric (for teachers) or observational notes and conversations (for parents).

- For the rubric be sure to include criteria that is connected to thinking, reasoning and mathematical content knowledge. The feedback provided to children should inform them about what they can do to improve.
- For the observational notes or conversations be sure to write about what they have succeed in using specific examples, and what they can do to improve in areas where they had difficulty or showed errors in their thinking. You can end the conversation by setting a goal.

ADDITIVE TRIPLE <56, 39, 17>
Difference 56 − 39 = 17
Addition 39 + 17 = 56
Subtraction 56 − 17 = 39
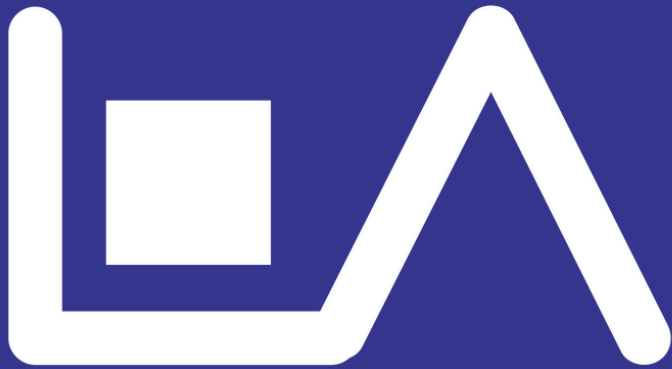
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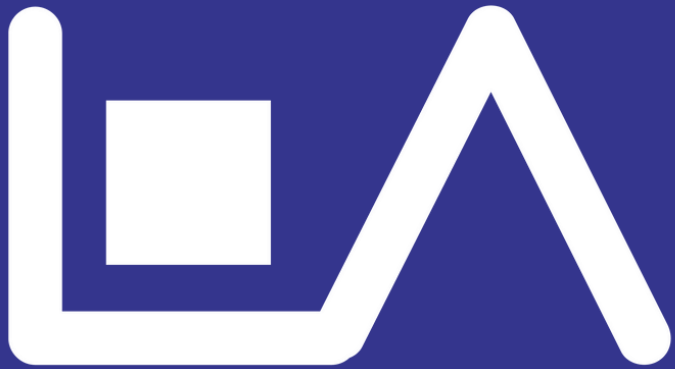This is the DIFFERENCE.

17

This is a count- number

This is what you are solving for.

?

39

What are the 3 numerals used in this question. Have a look at the clues we have given you.

Make the model on your Linear Abacus™. Just by looking at the model, can you explain what type of numbers you know and what type of number you are solving for?

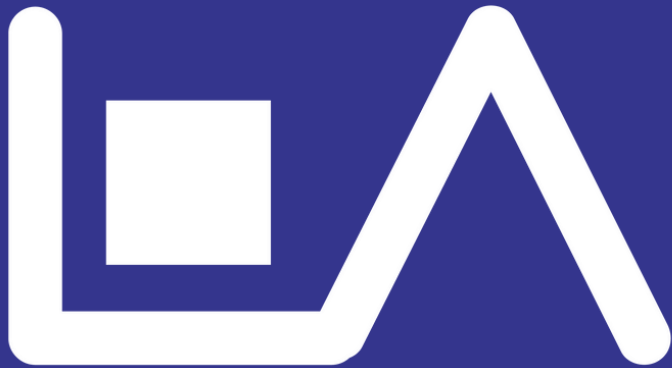Explain what the red and green numbers mean?

Think about how you can use the colours on the Linear Abacus™ to solve for the unknown number.

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Use the picture to write a word problem. Be sure to match the word problem to the Linear Abacus™ model.

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Complete the triple using the simple number sentence frames.

DIFFERENCE

___ - ___ = ___

ADDITION problem

___ + ___ = ___

SUBTRACTION problem

___ - ___ = ___

Don't forget to:
- use the colour coding system to show the count-numbers and the verb-number.
- Solve each number sentence using the abacus string.
- Think out loud as you match each number sentence to a story linked to your characters and their collection of flowers.