Missing the Point

Activity

Students are shown several numbers, some of which were original decimal amounts. In the middle of the night, some of the number's decimal points were stolen, so the numbers that appear are not actually correct. If students know that all of the number shown can be added up to make 10 if the decimal points were replaced, what could the original numbers be?

To support:

- Review what a decimal is.
  - The digits to the left of the decimal point are whole amounts.
  - The digits to the right of the decimal point are part amounts or fractions of a whole.
  - Decimals sometimes have 'leading zeros', which have no value, but make decimals easier to real.
    - E.g. 0.2, 0.16.
- Review lining up numbers according to place value if using column method to add.
- Use place value blocks to represent decimal amounts.

To challenge

Students could...

- Identify more than one strategy for adding decimals or for solving the problem.
- Explore what the answer would be if the total was a multiple of 3 instead of 10.
- Explore making different decimals, adding them together and then rounding the total to the nearest tenth, whole number of hundred.
- Create their own version of this challenge for others to solve.

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Yesterday, some of the number below were decimal amounts, but in the dead of night, someone stole the decimal points! If you know that yesterday, all of the numbers could be added together to make 10, what were the original numbers?

46

3

7

4

13

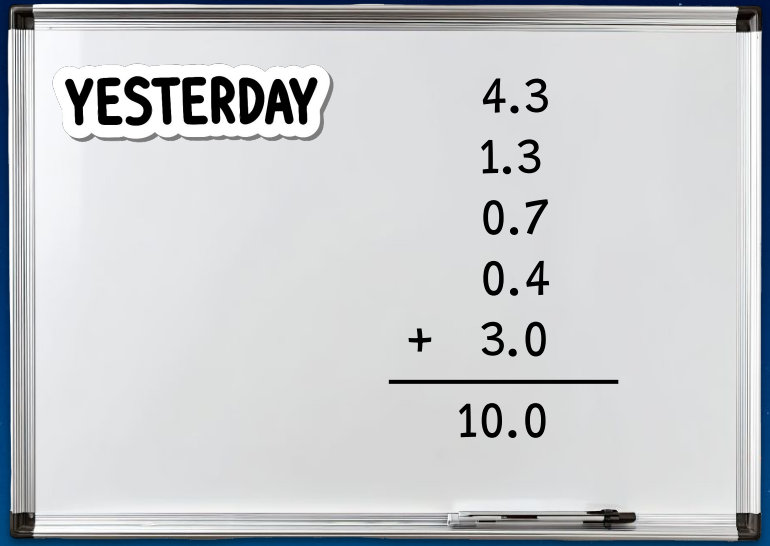


What if...the total was a multiple of 3 instead of 10?

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Solution



4.6 1.3 .7 .4 3

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