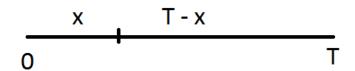
Template for solving word problems

Steps

- 1. Introduce a variable, say x
 - This variable x is either the answer to the question, or it is a required parameter in determining the answer to the question.
- 2. Construct formula(s) related to the variable in step (1)
- 3. Simply the formula(s)
- 4. Solve

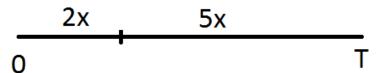
Some helpful tools for working with sums

- Graphical representation of the sum of 2 numbers.
 - o Example: graphical representation of two numbers whose sum is T



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- Algebraic representation of the sum of 2 numbers.
 - Example: algebraic representation of two numbers whose sum is T and their difference is 5:
 - Let x be one of the numbers, then the other number is (x + 5). Therefore we have (x) + (x + 5) = T.
- Graphical representation of ratios, fractions and percentages.
 - Example: graphical representation of two numbers whose sum is T and their ratio is 2:5



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• Algebraic representation of ratios, fractions and percentages.

- Example: algebraic representation of two numbers whose sum is T and their ratio is 2:5
- \circ Let 2x and 5x be the numbers, then we have 2x + 5x = T.
- Analysis on graphical representation of sums.
- Know the formula(s) related to the problem(s).