

Name _____

Partner Name _____

USING VISUAL MODELS TO UNDERSTAND AND SOLVE ALGEBRA PROBLEMS

- # Read each problem carefully.
 - # Underline all words or phrases which indicate quantities, operations or relationships.
 - # Record all information; if possible show your information using a sketch.
 - # Indicate the value of any known quantities; represent any unknown quantities with variables.
 - # Write an equation which states the relationships in the problem.
- DO NOT SOLVE THE PROBLEMS!!

1. Two pages that face each other in a book have 253 as the sum of their page numbers.
What are the page numbers?

Show your information here:



State your equation here:

2. A soccer field is twice as long as it is wide. If the perimeter is 300 yards, what are the field's dimensions?

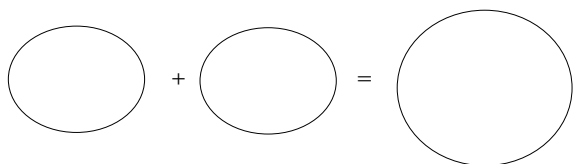
Show your information here:



State your equation here:

3. Find the cost per pound of a trail mix made from 40 pounds of raisins that cost \$4.40 per pound and 100 pounds of granola that costs \$2.30 per pound?

Show your information here:



State your equation here:

4. Two cars leave cities that are 315 miles apart and travel toward each other. One car travels at 50 mph and the second car travels at 55 mph. How long will it take them to meet?

Show your information here:

State your equation here:



PROBLEM SOLVING

Show the complete solutions to any two of the previous four problems. SHOW ALL WORK !! Solve your equations. Answer all questions. Check all solutions.

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