

# EXTRA PRACTICE — Exercises

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## Unit IV – First Degree Relations with Three or More Placeholders Part C – Problem Solving Using Three or More Placeholders **Lesson 2 – “Age” Problems**

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For each of the following story problems, answer the four analysis questions to find the system of equations needed to solve. Then solve and use common sense to check your answer.

1. The sum of the ages of Anthony, Carlos, and Benny is 41 years. Twice Anthony's age exceeds the sum of Benny's and Carlos's age by one year. Five years ago, Benny was 2 years more than twice as old as Carlos. Find their ages now.
2. The combined age of a mother and her two sons is 50 years. Four years ago, the mother was, 8 times as old as her older son. Four years from now, she will be, 4 times as old as her younger son will be in four years. Find the present age of each person.
3. Five years ago, Mark was the same age as Peggy is now. Mark's age and Peggy's age at present are together, twice Laura's age by one year. If the sum of their ages is 79, find their ages now.
4. Three brother's ages are such that six years from now, the combined ages of the two younger brothers will exceed their older brother's age by 15 years. Six years ago, the oldest brother was twice as old as the youngest brother. If their combined age is 45 years, how old is each now?
5. The sum of the ages of Alan, Jim and Les is 157 years. Twenty years ago, six times Jim's age was equal to, seven times Alan's age. In eight years, Les will be, three times as old as Alan was 30 years ago. Find their present ages.

# EXTRA PRACTICE — Answer Key

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For each of the following story problems, answer the four analysis questions to find the system of equations needed to solve. Then solve and use common sense to check your answer.

1. Anthony is 14 years old.  
Benny is 17 years old.  
Carlos is 10 years old.
  
2. The mother is 36 years old.  
The youngest son is 6 years old.
  
3. Mark is  $26\frac{1}{2}$  years old. Peggy is  $26\frac{1}{2}$  years old
  
4. The youngest brother is 12.  
The middle brother is 15.  
The oldest brother is 18.
  
5. Alan is 50 years old.  
Les is 52 years old  
Jim is 55 years old