USING EQUATIONS TO SOLVE PROBLEMS

Class work:

1) David has six times as much money as Fred, and Bill has three times as much money as Fred, If together they have $550, determine how much each one has.
2) At a carnival shooting gallery, you get five points for hitting a destroyer and three points for hitting a sub. If Peter scored 36 points with 10 hits, determine the number of submarines he hit.
3) Pete is twice as old as Mary. Seven years ago, the sum of their ages was 31. Find Pete's age now.
4) Find four consecutive odd numbers with a sum of 376. Can you find eight consecutive odd numbers with a sum of 376?

Answers: 1) 55, 165, 330   2) d = 3, s = 7   3) 30   4) a) 91,93,95,97 b) No.

Homework:

1) Dave traveled a total of 20 km by walking and running. One-third of the distance he walked equaled one-half the distance he ran. How far did he walk?

2) The Sea Breeze Motel has 72 total units of single rooms and suites. One night all but 7 rooms were sold. If the singles sold for $40 a night and the Suites for $60 per night, determine how many suites were sold if that night they collected $2960.

3) In the District Track Meet, Brock High School scored 52 points in total and won 24 ribbons. They won 6 first place finishes worth 5 points each. The remaining points came from second place finishes worth 3 points and third place finishes worth one point. How many third place finishes did the school win?

4) Find five consecutive integers with a sum of – 115. Can you find ten consecutive integers with a sum of – 115?

5) John is twice as old as his son, Bill. Twenty-one years ago, John was five times as old as his son, Bill. How old is John now?

Answers: 1) 12 Km. 2) 18 suites   3) 16 third place   4) a) -25, -24, -23, -22, -21
b) -16, …, - 7;   5) 56 years old