Comparing Two Data Sets - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem.

1. James is trying to determine if regular walks help to maintain proper blood pressure. People from Home 1 walk regularly. Home 2 does not regularly walk.

Based on the blood pressure data is there any reason to believe that home 1 has an advantage due to the walking? Find the standard deviation.

Home 1: 125, 135, 122, 113, 120
Home 2: 130, 99, 135, 145, 111

a. School 1 = 65.16
   School 2 = 64.33

No, there is little difference in the groups.

2. Helen is trying to determine if regular studying helps to improve quiz scores. School 1 children study regularly. School 2 children do not study regularly.

Based on the data is there any reason to believe that school 1 has an advantage due to the studying? Find the mean.

School 1: 23, 34, 40, 38, 42, 45
School 2: 12, 14, 18, 11, 20, 20

b. Home 1 = 8.03,
   Home 2 = 18.65

The tight deviation of home 1 and the difference between home 2 lead us to believe walking helps.

3. Megan is trying to determine if regularly drinking milk helps to maintain proper weight. School 1 children drink milk regularly. School 2 children do not drink milk regularly.

Based on the data is there any reason to believe that school 1 has an advantage due to the milk drinking? Find the mean.

School 1: 55, 68, 54, 71, 65, 78
School 2: 80, 45, 65, 85, 71, 40

c. School 1 = 37,
   School 2 = 15.83

Yes, there is a vast difference in score.