

Name _____

Date _____

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.

- a. School 1 = 65.16
School 2 = 64.33

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.

No, there is little difference in the groups.

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

_____ 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.

- b. Home 1 = 8.03,
Home 2 = 18.65

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

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

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

_____ 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.

- c. School 1 = 37,
School 2 = 15.83

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

Yes, there is a vast difference in score

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

