Lesson 5.6 Practice: Blocking, Matched Pairs and the Scope of Conclusions

School Launch · Statistics · Unit 5: Collecting Data: Samples and Experiments · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A matched-pairs study measures each subject before and after: (67, 81), (67, 95), (82, 88), (81, 79). Find the differences (after − before) and their mean. EASY

2. A matched-pairs study measures each subject before and after: (69, 82), (62, 95), (84, 81), (69, 74). Find the differences (after − before) and their mean. EASY

3. A matched-pairs study measures each subject before and after: (70, 82), (77, 78), (68, 95), (71, 65). Find the differences (after − before) and their mean. EASY

4. A matched-pairs study measures each subject before and after: (77, 70), (68, 62), (90, 94), (86, 82), (70, 64). Find the differences (after − before) and their mean.
MEDIUM

5. A matched-pairs study measures each subject before and after: (77, 95), (86, 69), (64, 72), (76, 67), (75, 86). Find the differences (after − before) and their mean.
MEDIUM

6. A matched-pairs study measures each subject before and after: (89, 81), (71, 92), (86, 92), (82, 76), (85, 94). Find the differences (after − before) and their mean.
MEDIUM

7. A matched-pairs study measures each subject before and after: (73, 95), (76, 65), (70, 91), (68, 62), (73, 62). Find the differences (after − before) and their mean.
MEDIUM

8. A matched-pairs study measures each subject before and after: (76, 75), (66, 77), (70, 72), (80, 76), (60, 93), (83, 88). Find the differences (after − before) and their mean. HARD

9. A matched-pairs study measures each subject before and after: (75, 62), (77, 64), (61, 81), (73, 74), (61, 87), (73, 70). Find the differences (after − before) and their mean. HARD

10. A matched-pairs study measures each subject before and after: (75, 63), (79, 62), (61, 82), (67, 73), (71, 90), (65, 62). Find the differences (after − before) and their mean. HARD