

TABLE 8.1 Schematic Diagrams of Randomized Designs

The Basic Randomized Design Comparing Treatment to Control

R X O
 R O

The Basic Randomized Design Comparing Two Treatments

R X_A O
 R X_B O

The Basic Randomized Design Comparing Two Treatments and a Control

R X_A O
 R X_B O
 R O

The Pretest-Posttest Control Group Design

R O X O
 R O O

The Alternative-Treatments Design with Pretest

R O X_A O
 R O X_B O

Multiple Treatments and Controls with Pretest

R O X_A O
 R O X_B O
 R O O

Factorial Design

R X_{A1B1} O
 R X_{A1B2} O
 R X_{A2B1} O
 R X_{A2B2} O

Longitudinal Design

R O . . . O X O O . . . O
 R O . . . O O O . . . O

A Crossover Design

R O X_A O X_B O
 R O X_B O X_A O

Note: For simplicity, we place the *R* (to indicate random assignment) at the front of the schematic diagram; however, assignment sometimes occurs before and sometimes after the pretest, so that the placement of *R* could be varied accordingly.

TABLE 4.1 Quasi-Experimental Designs Without Control Groups*The One-Group Posttest-Only Design*X O₁*The One-Group Posttest-Only Design With Multiple Substantive Posttests*X₁ {O_{1A} O_{1B}...O_{1N}}*The One-Group Pretest-Posttest Design*O₁ X O₂*The One-Group Pretest-Posttest Design Using a Double Pretest*O₁ O₂ X O₃*The One-Group Pretest-Posttest Design Using a Nonequivalent Dependent Variable*{O_{1A}, O_{1B}} X {O_{2A}, O_{2B}}*The Removed-Treatment Design*O₁ X O₂ O₃ ✕ O₄*The Repeated-Treatment Design*O₁ X O₂ ✕ O₃ X O₄

TABLE 4.2 Quasi-Experimental Designs That Use Control Groups But No Pretest

Posttest-Only Design With Nonequivalent Groups

NR		X	O ₁
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NR			O ₂
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Posttest-Only Design Using an Independent Pretest Sample

NR	O ₁	X	O ₂
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NR	O ₁		O ₂
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Posttest-Only Design Using Proxy Pretests

NR	O _{A1}	X	O _{B2}
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NR	O _{A1}		O _{B2}
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TABLE 5.1 Quasi-Experimental Designs That Use Comparison Groups and Pretests

<i>Untreated Control Group Design with Dependent Pretest and Posttest Samples</i>			
NR	O_1	X	O_2

NR	O_1		O_2
<i>Untreated Control Group Design with Dependent Pretest and Posttest Samples Using a Double Pretest</i>			
NR	O_1	O_2	X O_3

NR	O_1	O_2	O_3
<i>Untreated Control Group Design with Dependent Pretest and Posttest Samples Using Switching Replications</i>			
NR	O_1	X	O_2 O_3

NR	O_1	O_2	X O_3
<i>Untreated Control Group Design with Dependent Pretest and Posttest Samples Using Reversed-Treatment Control Group</i>			
NR	O_1	X	O_2

NR	O_1	X	O_2
<i>Cohort Control Group Design</i>			
NR	O_1		
.....			
NR	X		O_2
<i>Cohort Control Group Design with Pretest from Each Cohort</i>			
NR	O_1		O_2
.....			
NR			O_3 X O_4