

## Chapter 2

### Simple Comparative Experiments

### Solutions

**2.1.** Computer output for a random sample of data is shown below. Some of the quantities are missing. Compute the values of the missing quantities.

Variable	N	Mean	SE Mean	Std. Dev.	Variance	Minimum	Maximum
Y	9	19.96	?	3.12	?	15.94	27.16

SE Mean = 1.04      Variance = 9.73

**2.2.** Computer output for a random sample of data is shown below. Some of the quantities are missing. Compute the values of the missing quantities.

Variable	N	Mean	SE Mean	Std. Dev.	Sum
Y	16	?	0.159	?	399.651

Mean = 24.991      Std. Dev. = 0.636

**2.3.** Suppose that we are testing  $H_0: \mu = \mu_0$  versus  $H_A: \mu \neq \mu_0$ . Calculate the  $P$ -value for the following observed values of the test statistic:

- (a)  $Z_0 = 2.25$        $P$ -value = 0.02445
- (b)  $Z_0 = 1.55$        $P$ -value = 0.12114
- (c)  $Z_0 = 2.10$        $P$ -value = 0.03573
- (d)  $Z_0 = 1.95$        $P$ -value = 0.05118
- (e)  $Z_0 = -0.10$        $P$ -value = 0.92034

**2.4.** Suppose that we are testing  $H_0: \mu = \mu_0$  versus  $H_A: \mu > \mu_0$ . Calculate the  $P$ -value for the following observed values of the test statistic:

- (a)  $Z_0 = 2.45$        $P$ -value = 0.00714
- (b)  $Z_0 = -1.53$        $P$ -value = 0.93699
- (c)  $Z_0 = 2.15$        $P$ -value = 0.01578
- (d)  $Z_0 = 1.95$        $P$ -value = 0.02559
- (e)  $Z_0 = -0.25$        $P$ -value = 0.59871

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