

Sara Harvey

HI-224 Week 5 Homework

CHAPTER 9

Exercise 9.1

1. $\$31,200/312,000 = \0.10 per line
2. $\$29,120/234,000 = \0.12 per line
3. See excel for spreadsheet
 - a. $\$0.02$ is the difference in cost for these two employees
 - b. The more lines an employee produces at the same rate results in lower per line rate than the employee who produces less lines for the same pay.
 - c. $\$0.03$ is the difference in cost for these two employees
 - d. $\$0.11$ per line
4. ..
 - a. Lead Coder = $\$42,328/7,800 = \underline{\$5.43}$ per record; New Graduate = $\$32,240/5,850 = \underline{\$5.51}$ per record; Experienced Coder = $\$39,312/11,700 = \underline{\$3.36}$ per record
 - b. $\$113,880/25,350 = \4.49 per record
5. See excel spreadsheet

Exercise 9.2

See excel spreadsheet

Exercise 9.3

1. Postage = $\$790/550 = \1.44 ; Service Contract = $\$265/550 = \0.48 ; Equipment = $\$150/550 = \0.27 ; Supplies = $\$95/550 = \0.17 ; Wages = $\$2253/550 = \4.10
2. $\$6.46 * 550$ requests = $\$3,553$ monthly ROI cost
3. They have $\$1753$ per month in losses
4. Advantages include possible use of employees in other locations and no financial loss for the facility. Disadvantages include employee loss, and unqualified staff performing job duties.
5. A) 6.38% B) 52.88%

Exercise 9.4

1. See excel spreadsheet
2. See excel spreadsheet

Exercise 9.5

1. See excel spreadsheet
2. $11/500 = 2.2\%$

Exercise 9.6

1. See excel spreadsheet

2. See excel spreadsheet

Exercise 9.7

1. 18 FTEs needed
2. 2.5 additional coders needed
3. 7.5 FTEs needed
4. See excel spreadsheet; Coder 3 is below productivity and may need assistance
5. See excel spreadsheet

Exercise 9.8

1. 247,000 pages to scan/7,500 pages scanned per day = 32.93 or 33 days to scan
2. 3.3 FTEs needed
3. See excel spreadsheet

Exercise 9.9

1. 6.7 FTEs needed
2. See excel spreadsheet
3. 264 hours
4. 1.76 FTEs needed
5. Physician = 5.22%; Coder = 0.78%; Business office = 1.39%

Exercise 9.10

1. $32,000/4,500 = 7.1$ years. No, the department should not purchase the equipment.
2. -5.6% is the budget variance.
3. 4.78 years is the payback period.
4. See excel spreadsheet
5. 247.13 total hours of OT

Matching Quiz

1. B
2. D
3. F
4. H
5. A
6. C
7. E
8. G

Review

1. 5.3 FTEs needed
2. 1.7 FTEs needed
3. \$39,000 must be budgeted
4. \$41,600 is the new amount to be budgeted
5. \$240 needs to be budgeted

6. \$15,200 would need to be budgeted
7. See excel spreadsheet
8. 73.33%
9. 52.93%
10. See excel spreadsheet
11. 5.47% readmission rate
12. A) Average number of records per coder is 500. B) 71.43 records. C) 98.53%
13. See excel spreadsheet
14. A) 1.05% B) 50 claims C) \$12,800 savings D) 4.69 years

CHAPTER 10

Exercise 10.1

1. True
2. See excel spreadsheet – 86 is the 50th percentile
3. See excel spreadsheet
 - a. Dr. 975 is in the 80th percentile
 - b. The 60th percentile is Dr. 518 with 12 c-sections
4. See excel spreadsheet – **Data table provided to us was missing a data value (same as the answer in the back of the book). I recreated the table to pull in all data from question.**

Exercise 10.2

1. Mean = 6.43; Median = 6; Mode = 6
2. No, this is not correct because the average is 7.8. 9 would be the mode of her test scores.
3. Mean = 5.0; Median = 4.5; Mode = 5
4. See excel spreadsheet
5. Median = 12 minutes; Mean = 12.6 minutes

Exercise 10.3

1. The range is 18
2. Ranges are:
 - a. 18
 - b. 20
 - c. 97
3. 22
4. 64
5. 120

Exercise 10.4

See excel spreadsheet

Matching Quiz

1. B

2. F
3. J
4. H
5. D
6. C
7. G
8. I
9. E
10. A

Review

1. A) 90th percentile is 69. B) 55th percentile
2. See excel spreadsheet
3. See excel spreadsheet
4. A) Mean is 5. B) Median is 3. C) Mode is 2 and 3. D) Patient 6's LOS of 29 is affecting the mean and SD as it is an outlier of the other data. E) Median is the best measure of central tendency.
5. False
6. The mean is 15.3, median is 15.6, range is 6.4.
7. 10th percentile
8. The first quartile is \$15.34 and the third quartile is \$17.05
9. Mean = 54.1 inches; Median is 52.5 inches; Modes are 51 and 57 inches
10. See excel spreadsheet
11. B
12. A
13. A
14. See excel spreadsheet
15. ..
 - a. 1
 - b. 2
 - c. 1
 - d. 2
 - e. 1