Statistics for Nursing - A Practical Approach 4th edition Heavey Solutions Manual

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Statistics for Nursing: A Practical Approach, Fourth Edition

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Answer Key for Chapter Review Questions

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Chapter 1 Review Questions

1. D

2. D

3. A

4. C

5. C

6. A

7. Preoperative blood pressure

8. Postoperative hematocrit

9. Answers may vary—actual blood pressure-ratio, lab reported hematocrit-ratio, and so on.

10. Transfusion status

11. Depression

12. Answers may vary: transfusion status, yes/no, nominal, Beck's depression scale, interval, and so on.

13. Answers may vary.

14. Interval/ratio

15. pain yes/no

16. Increases analysis options

17. Quantitative

18. Answers may vary, including that this group may have realized they had a grave health risk and are simply happy to be alive.

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19. Answers may vary, including IQ, school enrollment, crime, pregnancy, hematocrit, learning disabilities, growth, hearing, and behavior.

20. Answers will vary.

21. Answers will vary.

22. Lead level

23. Answers may vary and include, “It requires a blood draw,” “There are different testing mechanisms,” “The level may change depending on when the exposure occurred and the time that has lapsed since then,” “Levels may differ from fingersticks versus serum draws.”

24. Answers will vary.

25. Answers will vary.

26. dosage administered

27. side effects, nausea, headache, weight gain, weight loss, lethargy, skin rash

28. nominal

29. interval/ratio

30. ordinal, categorical

31. ratio

32. Answers will vary but may include: the lower dose because there are fewer side effects with the same outcomes, May want to know the cose, the means and frequency of the dose administration, etc.

33. signs and symptoms of neuropathy

35. Ordinal

36. Nominal

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37. Interval- Because collecting the data at a higher LOM gives you more analysis options

38. Compliance with the DASH diet

39. Stage of high blood pressure, categorical

40. a

41. c

42. b

43. a

44. a

45. b

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Chapter 2 Review Questions

1. 33%

2. 78%

3. 9/40=22.5%

4. Answer includes graph, with histogram columns are touching.

5. Answer includes line graph; beginning in October there is a substantial decrease in cases.

6. The flu vaccine is usually administered in the fall; so the cases that occur in August and September are before the vaccine was given.

7. Yes, there was a substantial decrease in cases beginning in October after the vaccine was administered.

8. Answer includes bar chart.

9. 27.2%, 49.4%, qualitative

10. Pregnancy, student status, mother's marital status, and employment status are nominal.

Age and number in household are ordinal.

11. Yes, age, number in household, years in school, years employed

12. Answer includes histogram graph; answers will vary, the majority of the subjects were over age 15 with about half under 17 and about half over 17.

13. No, all of the adolescents were waiting for pregnancy or family planning–related services.

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14. Nurses with three or fewer years of experience should go to the rescue team; nurses with 4–6 years of experience to the stadium team; nurses with 7–10 years of experience to the hospital team; and nurses with 11–40 years to the ICU team.

15.

Number correct on the post test	Number of patients who answered this number of questions correctly (Frequency)	Number who answered this many or less questions correctly (Cumulative Frequency)
0	1	1
1	1	2
2	2	4
3	6	10
4	5	15

16. 5/15 = 33.3%

17.

% who answered this many or less questions correctly (Cumulative %)
1/15 = 6.7%
2/15 = 13.3%
4/15 = 26.7%
10/15 = 66.7%
15/15 = 100%

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18.

	Frequency	Percent
Subjects scoring less than 70%	4	26.7%
Subjects who passed the exam (> 70%)	11	73.3%

19. A scatterplot

20. Answers may vary but may include, the person was incorrectly diagnosed, the data was incorrectly entered, the person has significantly less inflammation than his/her peers, this individual is responding better to treatment, etc.

21. A histogram better illustrates the continuum of time from one month to the next with an order involved.

22. Answers will vary but may include January is when New Years occurs and more people are right handed than left handed.

23. The winery

24. eye injuries

25.

	New Cases	Deaths	Population	Mortality Rate
Men	5	2	25,000	**0.008%**
Women	3	1	25,000	**0.004%**
White	7	3	40,000	**0.0075%**

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African American	1	0	10,000	**0**

26. Answers will vary but may include: Different skin color- melanin protects from UV, different cultures have different prevention behaviors, different exposure time, difficulties diagnosing on darker skin, differences in access to health care, etc.

27.

Age range	Frequency	Cumulative Frequency
0-5	1	1
6-10	2	3
11-15	4	7
16-20	1	8
21-25	3	11
26-30	4	15
31-35	6	21

28. Though the absolute number of deaths is higher in California the population is also substantially higher in California. When we look at the mortality rate per 100,000 we find that the death rate is substantially higher in Delaware.

29. Putting the rates rather than the absolute numbers in the bar chart helps to clearly illustrate the different mortality rates between two vastly different sizes of states.

30.)

Date	# of Cases	Cumulative Frequency Cases	# of Deaths	Cumulative Frequency Deaths

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6/2/2014	50	50	6	6
6/5/2014	81	131	7	13
6/10/2014	89	220	7	20
6/11/2014	117	337	19	39
6/18/2014	97	434	49	88
6/24/2014	158	592	34	122

31. The highest incidence is in those who are <25 years old. Explanations may vary but may include: This may be due to having more sexual partners, riskier sexual practices and more frequent sexual activity during this age bracket.

32. The lowest incidence is found in those ages 36-45. Explanations may vary but may include: This may be due to having fewer sexual partners, safer sexual practices and less frequent sexual activity during this age bracket when compared with some others. It also may be that the group over age 45 includes a much larger age range so the actual number of people in that age group impacts the incidence and makes it higher despite what may be safer sexual practices.

33. Answers will vary but may include ages <25 because of higher incidence and more long term risks from early infection. May also include all under age 35 because that captures the two highest incidence age groups. Other answers are feasible as well.

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