

MAT-120 – HW #4 – Answers

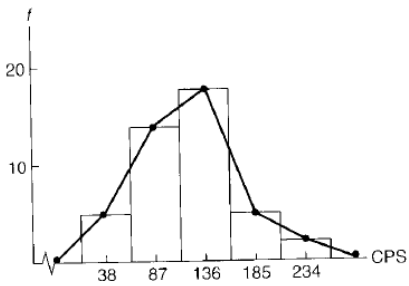
Please select the correct answer number of each question. There are more answers than questions. Answers may be repeated.

1.

Class width = 49

2.

Speed of Dot-Matrix Printers—Histogram and Frequency Polygon

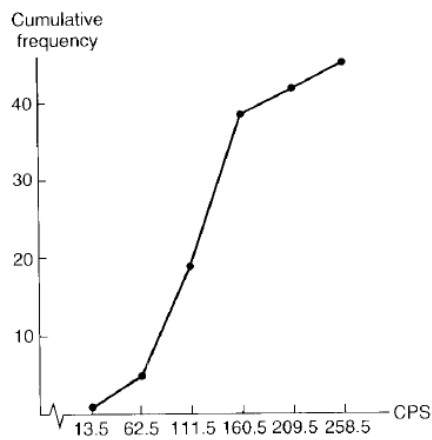


3.

Class width is 17.

4.

Speed of Dot-Matrix Printers—Ogive

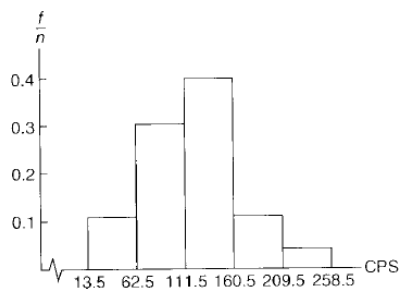


5.

Class width is 16.

6.

Speed of Dot-Matrix Printers—Relative-Frequency Histogram



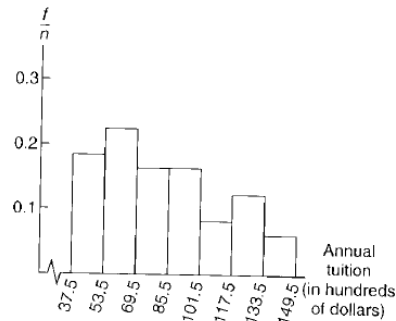
7. Annual Tuition at Private Accredited U.S. Colleges
(in hundreds of dollars)

Class Limits	Class Boundaries	Midpoint	Frequency	Relative Frequency	Cumulative Frequency
38– 53	37.5– 53.5	45.5	9	0.184	9
54– 69	53.5– 69.5	61.5	11	0.225	20
70– 85	69.5– 85.5	77.5	8	0.163	28
86–101	85.5–101.5	93.5	8	0.163	36
102–117	101.5–117.5	109.5	4	0.082	40
118–133	117.5–133.5	125.5	6	0.122	46
134–149	133.5–149.5	141.5	3	0.061	49

8. Age of Clothing Store Customers

Class Limits	Class Boundaries	Midpoint	Frequency	Relative Frequency	Cumulative Frequency
16–21	15.5–21.5	18.5	9	0.300	9
22–27	21.5–27.5	24.5	5	0.167	14
28–33	27.5–33.5	30.5	4	0.133	18
34–39	33.5–39.5	36.5	4	0.133	22
40–45	39.5–45.5	42.5	3	0.100	25
46–51	45.5–51.5	48.5	4	0.133	29
52–57	51.5–57.5	54.5	1	0.033	30

9. Annual Tuition at Private Accredited U.S. Colleges and U.S. Universities (in hundreds of dollars)—Relative-Frequency Histogram



10. The number of winning times of less than 7.15 seconds over 2 minutes is approximately 76 winning times. The percentage of winning times that are less than 7.15 seconds over 2 minutes is $76/92 = 83\%$.

11.

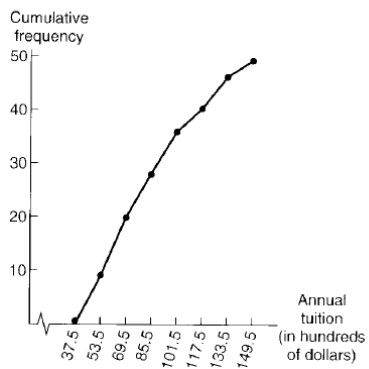
Speed of Dot-Matrix Printers

Class Limits	Class Boundaries	Midpoint	Frequency	Relative Frequency	Cumulative Frequency
14– 62	13.5– 62.5	38	5	0.11	5
63–111	62.5–111.5	87	14	0.32	19
112–160	111.5–160.5	136	18	0.41	37
161–209	160.5–209.5	185	5	0.11	42
210–258	209.5–258.5	234	2	0.05	44

12. The first number in the list becomes 362, the second one becomes 428, and so forth.

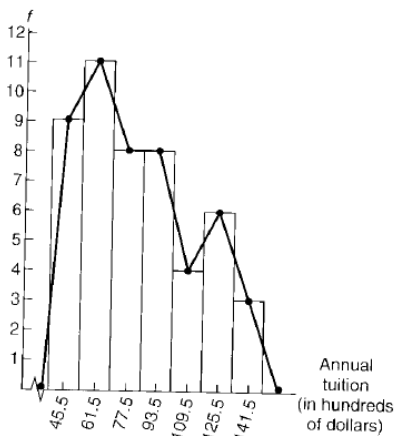
13. Answers will vary.

14. Annual Tuition at Private Accredited U.S. Colleges (in hundreds of dollars)—Ogive



15. Class width is 6.

16. Annual Tuition at Private Accredited U.S. Colleges (in hundreds of dollars)—Histogram and Frequency Polygon



17. Version 1 is skewed left; version 2 is uniform; version 3 is symmetrical; version 4 is bimodal; version 5 is skewed right