Measures of Centrality Solutions

1 Mean—Median—Mode

1.	(a) Two possible values
	(b) $x = 3$
2.	Median = 7 is the highest

- 3. (a) 35 k (low)
 - (b) Mean = 121.3 k (distorted by extreme values)
 - (c) Median = 65 k
- 4. (a) 14
 - (b) 13
 - (c) 24 or 1
- 5. 8
- 6. (a) 8.8
 - (b) 8
 - (c) 8
 - (d) 10.5
- 7. To Be Shown
- 8. (a) 15.1
 - (b) 7
 - (c) 3
 - (d) 31

The median is probably the best measure of average, because 61 is an extremely large data value and makes the mean artificially high.

- 9. To Be Shown
- 10. (a) 105
 - (b) 110
 - (c) 110

- (d) 97.5
- 11. To be shown
- 12. (a) 6.63
 - (b) 6.45
 - (c) none
 - (d) 6.7

2 Tables

- 13. (a) 36
 - (b) 31
 - (c) 90
 - (d) 30 40
 - (e) 40 50
- 14. (a) 8
 - (b) 30
 - (c) discrete
- 15. (a) x = 6
- 16. (a) x = 7
 - (b) discrete
- 17. (a) Almost perfectly symmetric.
 - (b) mean=44.49g; median=45g
- 18. (a) 43.62mins
 - (b) 16
- 19. (a) 96
 - (b) 33.91 years
 - (c) 25
- 20. (a) Continuous
 - (b) TABLE
 - (c) To be shown
 - (d) Slightly skewed right
 - (e) 34.25 degrees Celsius
 - (f) 34.4 degrees Celsius
 - (g) AMEND
 - (h) AMEND

2.1 Mean, Median or Mode

- 21. (a) Mean or Median
 - (b) Mode
 - (c) Mean or Median
 - (d) Mode
 - (e) Median
- 22. (a) Mean
 - (b) Mode
 - (c) Median
- 23. (a) Categorical (nominal)
 - (b) Mode
- 24. (a) Median
 - (b) Not Really
 - (c) Mean
- 25. Mean = 32.8 percent, Median = 18. I would use the median as the mean is raised in value by the outlier value of 188.