1. Consider the following scores comprising a population of size N = 14

|  |  |
| --- | --- |
|  X |  F |
|  14 |  1 |
|  13 |  2 |
|  12 |  4 |
|  11 |  3 |
|  10 |  2 |
|  9 |  2 |

1. What is the mean for these N = 14 scores?
2. What is the mode for these N = 14 scores?
3. What is the standard deviation for these N = 14 scores?
4. Using a mean of 7.55 and a standard deviation of 1.86, convert the following values of X into z-scores:
5. X = 10.48, z =
6. X = 3.17, z =
7. X = 8.41, z =
8. X = 5.62, z =
9. Assuming a mean of 7.55 and a standard deviation of 1.86, what is the probability that:
10. p(X > 10.48)
11. p(X < 3.17)
12. p(X < 8.41)
13. p(X > 5.62)
14. Assuming a normal distribution, what values of z corresponds to the following percentiles?
15. 75th
16. 25TH
17. 40TH
18. 60TH
19. 50TH