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