**BLM 7.SP.1.4: Using Central Tendency to Choose a Quarterback**

Rodney and Jezreel both want the position of quarterback on the football team for the next game. They were told that the choice of quarterback would be based on their performance at a practice. During the practice, receivers ran around the field in approximate target zones. The quarterbacks could choose from the targets. If they got the ball to the receiver, they scored that number of yards, whether or not the receiver caught the ball. If the quarterbacks missed the receiver, they scored zero. Each quarterback got 10 throws.

1. The team collected the following data for each candidate competing for the position of quarterback. Review the data. Then, based on the performance of the two candidates at the football practice, decide who would be the best choice of quarterback for the game.

|  |  |  |
| --- | --- | --- |
| **Throw Number** | **Rodney** | **Jezreel** |
| 1 | 10 | 25 |
| 2 | 15 | 0 |
| 3 | 0 | 20 |
| 4 | 25 | 0 |
| 5 | 0 | 0 |
| 6 | 15 | 25 |
| 7 | 10 | 0 |
| 8 | 15 | Smudged—can’t read |
| 9 | 10 | 20 |
| 10 | 0 | 0 |
| Range |  |  |
| Mean |  |  |
| Median |  |  |
| Mode |  |  |
|  |  |  |

2. Make a recommendation for the best choice of quarterback, and provide reasons for the choice.