

**04/03/2025 – Statistical Measures****Review of Unit 11 for Grade 6 (6A) – Fun theme: Riding the Range***Questions to follow along with show. Watch: [Math Homework Hotline](#)*

<p>1) Give an example of a statistical question and a not statistical question generating numerical data. (MA.6.DP.1.1)</p> <p><b>Statistical question with numerical data:</b></p> <p><b>Not a statistical question with numerical data:</b></p>	<p>2) What is the mean of the data set? What does it represent? (MA.6.DP.1.2)</p> <p>a) Minutes spent napping last week: {60, 70, 80, 90, 100}</p> <p>b) Miles traveled in a day: {10, 15, 20, 25, 30, 35}</p>
<p>3) What is the median of the data set? What does it represent? (MA.6.DP.1.2)</p> <p>a) Height of hay clumps in inches: {6, 77, 80, 91, 10}</p> <p>b) Points in cornhole game: {4, 15, 9, 8, 3, 32}</p>	<p>4) Give an example of a data set that could represent each statement. (MA.6.DP.1.2)</p> <p>a) Mode = 0</p> <p>b) Mode = 3 and 4</p> <p>c) Mode = none</p> <p>Example with show's theme:</p>
<p>5) Below are the average weekly minutes spent practicing lassoing for a group of ten cowboys. (MA.6.DP.1.2)</p> <p>{ __, 20, 28, 32, __, 44, 49, 55, 60, 65 }</p> <p>Use the range and median to determine the missing numbers in the ordered data set.</p> <p>Range: 55 minutes Median: 39 minutes</p>	<p>6) As reported on CowboyRealty.com, the median prices of ranches in Texas in October of 2020 was \$500,000. Ranch prices in an area are commonly reported with the median as a measure of center and range as a measure of variability. Explain why this is reasonable. (MA.7.DP.1.1)</p>

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- 7) The results from the last barrel racing practice, in seconds, recorded by cowboys in Sheriff Sam's class are listed below:

{45, 78, 62, 85, 90, 55, 72, 60, 58, 80, 55, 70, 88, 82, 75, 55}

Cowboy Alex comes back from vacation and records a time of 130 seconds.

With and without Alex's time, which measure of variation should Sheriff Sam use to best summarize how his cowboys did in the practice? (MA.6.DP.1.6)

- 8) Cowboy Lee works at a ranch store. The costs of her first seven sales of the day are listed below. When the outlier is removed, what is true about the outlier's influence on the measures of center and how they change? (MA.6.DP.1.6)

**Sales #      Cost of Sale**

Sale 1      \$45

Sale 2      \$38.50

Sale 3      \$50.10

Sale 4      \$100

Sale 5      \$44.49

Sale 6      \$42.72

Sale 7      \$46

- 9) The scores for horseback riding competitions taken by Cowboy Joe and Cowboy Sam are shown below. Each competition is worth 20 points. Compare their data scores using statistical measures. (MA.7.DP.1.2)

**Joe:** 14, 17, 19, 14, 15, 18, 15

**Sam:** 15, 17, 15, 8, 16, 19, 19

- 10) Below are the monthly costs for two horse grooming services. Find the mean, median, range, and IQR for both services. Using the information you calculated, which service should you choose for your monthly horse grooming? (MA.7.DP.1.2)

Month	Grooming Service A	Grooming Service B
June	\$120	\$95
July	\$110	\$100
Aug	\$130	\$105
Sept	\$125	\$110
Oct	\$115	\$98

**Grooming Service A:**

**Mean:** , **Median:** , **Range:** , **IQR:**

**Grooming Service B:**

**Mean:** , **Median:** , **Range:** , **IQR:**