**Guided Notes- Chapter 8: Statistics and Multiplication Equations Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**In this chapter I CAN:**

* - Use measures of central tendency, histograms, stem-and leaf plots, and box plots to represent and compare data
* -Consider the shape and spread of data both through visual displays and calculations
* -Decide if a question is a statistical question
* -Solve problems involving distance, rate, and time
* -Convert units so that they are the same and then use them to compare rates

**8.1.1 How can I describe the data?**

**Measures of Central Tendency**

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| --- | --- |
| ***8-1*** | |
|  | |
| 8-2 | |
| **a.** | **b.** |

|  |  |
| --- | --- |
| ***8-3*** | |
| **a.** | **b.** |

|  |  |
| --- | --- |
| ***8-5*** | |
| **a.** | **b.** |
| **c.** | |

**8.1.2 What is a typical value?**

**Choosing Mean or Median**

|  |  |
| --- | --- |
| ***8-12*** | |
| **a.** | **b.** |
| **c.** | |
| **8-13** | |
| **a.** | **b.** |
| **c.** | **d.** |

|  |  |  |
| --- | --- | --- |
| ***8-14*** | | |
| **a.** | **b.** | |
| **c.** | **d.** | |
| **e.** | **f.** | |
| **8-15** | | |
|  | | |
| **8-16** | | |
|  | | |
| **8-17** | | |
| **a.** | | **b.** |
| **c.** | | **d.** |
| **e.** | | **f.** |

**8.1.3 How else can I describe the data?**

**Shape and Spread**

|  |  |
| --- | --- |
| ***8-30*** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **e.** | **f.** |

|  |  |
| --- | --- |
| ***8-31*** | |
|  | |
| ***8-32*** | |
| **a.** | **b.** |
| **c.** | |
| ***8-33*** | |
| **.** | |
| **8-34** | |
|  | |
| **8-35** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **8-36** | |
|  | |

**8.1.4How can I display variability?**

**Box Plots and Interquartile Range**

|  |  |
| --- | --- |
| ***8-44*** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **8-45** | |
|  | |
| ***8-46*** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **e.** | **f.** |
| **h.** | |
| **8-47** | |
|  | |
| ***8-48*** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **e.** | |

|  |
| --- |
| ***8-49*** |
|  |

**8.1.5 Which representation should I use?**

**Comparing and Choosing Representations**

|  |  |
| --- | --- |
| ***8-61*** | |
| **a.** | **b.** |
| ***8-62*** | |
| **a.** | **b.** |
| **8-63** | |
| **a.** | **b.** |
| **8-64** | |
| **a.** | **b.** |
| **c.** | |

**8.2.1 How can I answer the question using statistics?**

**Statistical Question**

|  |  |  |
| --- | --- | --- |
| ***8-71*** | | |
| ***a.*** | ***b.*** | ***c.*** |
| ***d.*** | ***e.*** | ***f.*** |
| ***g.*** | ***h*** | ***I*** |
| ***8-72*** | | |
|  | | |
| **8-73** | | |
|  | | |

8.3.1 How can I write an equation?

Writing Multiplication Equations

|  |  |
| --- | --- |
| ***8-84*** | |
| **a.** | **b.** |
| **c.** | |
| **8-85** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **8-86** | |
| **a.** | **b.** |

8.3.2 What is the relationship?

Distance, Rate, and Time

|  |  |
| --- | --- |
| ***8-95*** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **8-96** | |
| **a.** | **b.** |
| **c.** | **d.** |
| **e.** | |
| **8-97** | |
| **a.** | **b.** |
| **c.** | |
| **8-98** | |
| **a.** | **b.** |
| **c.** | **d.** |

8.3.3 How can I compare them?

Unit Conversion

|  |  |
| --- | --- |
| ***8-106*** | |
| **a.** | **b.** |
| ***8-107*** | |
|  | |
| 8-108 | |
|  | |
| 8-109 | |
|  | |
| **8-110** | |
| **a.** | **B** |
| **8-111** | |
|  | |
| **8-112** | |
| **a.** | **b.** |
| **c.** | |
| **8-113** | |
| **a.** | **b.** |
| **c.** | **d.** |