Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CFS:

* + **Annotations:** circle important numbers/underline what you’re solving for
  + Decide whether **mean** or **median** is more appropriate
  + Find the **mean** and **median**
  + Answer statement is written

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 10 LESSON 6

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| AIM: | SWBAT determine when to use the mean and the median |

**THINK ABOUT IT!**

Jonah and his sister got their progress report with five test scores. For **each data set**, is the mean or median more representative of the test scores? Explain.

|  |  |
| --- | --- |
| Jonah | 88%, 92%, 30%, 89%, 91% |
| Lila | 90%, 86%, 86%, 88%, 87% |

Jonah Lila

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CFS:

* + **Annotations:** circle important numbers/underline what you’re solving for
  + Decide whether **mean** or **median** is more appropriate
  + Find the **mean** and **median**
  + Answer statement is written

**Test the Conjecture**

*Ex. 1)* The Department of Housing in New York City reports on the average monthly rent people pay. The ten amounts below are a sample of the cost of rent for ten one-bedroom apartments in Harlem. Does the mean or median of the data best represent the average cost of rent in Harlem? Support your answer with mathematical evidence.

$2,000, $1,900, $1,850, $2,100, $2,000, $2,200, $2,400, $2,300, $2,200, $2,100

*Ex. 2)* Customers at the Brooklyn steakhouse, Peter Luger, were asked to rank their customer service satisfaction on a scale of 1-10 with 1 being the worst, and 10 the best. The results of a random group of customers on a Tuesday night are shown below.

10, 10, 10, 9, 1, 8, 9, 10, 10, 8, 8, 9, 10

If the restaurant wants to report out the results of their survey, which measure of center should they use? Support your answer with mathematical evidence.

Conjecture

|  |
| --- |
| The \_\_\_\_\_\_\_\_\_\_\_\_ is more appropriate when there are not outliers, and the \_\_\_\_\_\_\_\_\_\_\_\_ is more appropriate when there are outliers |

**PARTNER PRACTICE**

CFS:

* + **Annotations:** circle important numbers/underline what you’re solving for
  + Decide whether **mean** or **median** is more appropriate
  + Find the **mean** and **median**
  + Answer statement is written

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| --- |
| *Bachelor Level* |

1. Bobby has been doing pushups every day for 10 days. He listed the number of pushups he did each day below.

14, 19, 20, 12, 14, 16, 30, 20, 18, 18

He wants to brag about the number of pushups he is able to typically do. Without doing calculations, should he brag about the mean or median number of pushups he was able to do? Why?

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Prove that your claim above is correct by calculating the mean and median.

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| *Master Level* |

1. A veterinarian is interested in knowing the weight of all of the golden retrievers she sees at her clinic. The values of the golden retriever’s weights are listed in the dot plot below.

48 49 50 51 52 53 54 55

Which measure of central tendency will best represent this data set? Why? Prove it.

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**INDEPENDENT PRACTICE[[1]](#endnote-1)**

CFS:

* + **Annotations:** circle important numbers/underline what you’re solving for
  + Decide whether **mean** or **median** is more appropriate
  + Find the **mean** and **median**
  + Answer statement is written

|  |
| --- |
| *Bachelor Level* |

1. On a scuba-diving trip, divers were asked to count the number of stingrays they saw over the course of the 40-minute dive. The results were: 9, 5, 3, 8, 8, 6, 11, 9, 38, 7, 5.

Without calculating the mean and median, which measure of central tendency will best represent this data set? Why?

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Prove that your claim above is correct by calculating the mean and median.

1. For each data set below, put a star next to a data set that would be best represented by the mean and a square next to a data set that would be best represented by the median.

* 4, 5, 2, 3.4, 5
* 200, 300, 250, 275, 225
* 4,000, 12,000, 3,500, 3,750, 200,000
* 2 ½, 3 ¼, 2 ¾, 3, 3 ¼

|  |
| --- |
| *Master Level* |

1. The temperature in March in Hartford fluctuates greatly. In one week, the high temperatures were: 68°, 54°, 77°, 36°, 60°, 40°, and 70°. A tourist from France is visiting Hartford and needs to know what sort of clothing to pack for her trip. What advice would you give her based on the temperatures above? Provide mathematical reasoning to support your advice.

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1. Create a ten-point data set for which the mean would be the best measure of center. Justify.

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1. Students in the 6th grade recorded the number of books they read in the month of November. The results of a group of students is shown below.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 8 | 12 | 6 | 5 | 10 | 11 | 8 | 4 | 7 |
| 6 | 9 | 10 | 11 | 15 | 7 | 15 | 0 | 8 | 15 |

Represent the data in a dot plot.

Which measure of central tendency will best represent the overall achievement of these 6th grade students? Explain why this measure of central tendency is better than another measure.

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| *PhD Level* |

1. Baseball players are often drafted according to their batting performance. A scout is looking for the best baseball players in the country. Would the scout want to evaluate a player’s ability using the median batting performance or mean batting performance? Explain your reasoning.

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1. In order to convince high school seniors to attend their programs, Columbia University and New York University want to advertise the salaries earned by its graduates. Which measure of central tendency should schools advertise? The mean, or the median? Why? What other factors should the universities take into account when making this decision?

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**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

CFS:

* + **Annotations:** circle important numbers/underline what you’re solving for
  + Decide whether **mean** or **median** is more appropriate
  + Find the **mean** and **median**
  + Answer statement is written

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET2**

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| Self-assessment | I mastered the learning objective today. | I am almost there. | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there. | You need more practice and feedback. |

1. The data set below shows the amounts of money made by five students on a charity walk.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Student | Sandy | Beza | Simon | Ayan | Demitri |
| Amount of $ Raised | $20 | $88 | $90 | $92 | $85 |

* 1. Determine the median and the mean of the data set
  2. Which measure of center do you think best describes the data set? Explain your thinking.

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1. Dan’s scores on his recent math quizzes are 93, 83, 70, 92 and 40. Dan’s parents ask him how he is doing in Math class. Which measure of center do you think Dan would choose to share with his parents? Explain.

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