

NAME \_\_\_\_\_

DATE \_\_\_\_\_

CENTRAL TENDENCY: Worksheet 4

Find the mean, median and mode for the following data.

- 1) 5, 10, 5, 14, 14, 9
  
  
  
  
  
  
  
  
  
  
- 2) 29, 34, 18, 21, 20, 21, 25
  
  
  
  
  
  
  
  
  
  
- 3) 1, 4, 4, 3, 2, 8, 8, 12, 5, 11
  
  
  
  
  
  
  
  
  
  
- 4) 89, 90, 79, 94
  
  
  
  
  
  
  
  
  
  
- 5) In Dakota's first four basketball games he scored a total of 57 points. How many points would he need in the next game to have a 15 point average?
  
  
  
  
  
  
  
  
  
  
- 6) There were 5 babies born at Memorial Hospital last weekend.  
The length of the babies ranged from 16 inches to 21.5 inches. Their lengths were:  
16 in.      20.5 in.      19 in.      21.5 in.      19 in.  
What were the mean, median and mode for these lengths?

**KEY**

**CENTRAL TENDENCY: Worksheet 4**

Find the mean, median and mode for the following data.

- 1) 5, 10, 5, 14, 14, 9

**Mean:**  $(5 + 10 + 5 + 14 + 14 + 9) \div 6 = 57 \div 6 = 9.5$

**Median:** List from small to large. 5,5,**9,10**,14,14. Median is between 9 & 10: **9.5**

**Mode:** Appears the most number of times: **Two modes: 5 & 14**

- 2) 29, 34, 18, 21, 20, 21, 25

**Mean:**  $(29 + 34 + 18 + 21 + 20 + 21 + 25) \div 7 = 168 \div 7 = 24$

**Median:** List from small to large. 18,20,21,**21**,25,29,34. Middle score is the median: **21**

**Mode:** Appears the most number of times: **21**

- 3) 1, 4, 4, 3, 2, 8, 8, 12, 5, 11

**Mean:**  $(1 + 4 + 4 + 3 + 2 + 8 + 8 + 12 + 5 + 11) \div 10 = 58 \div 10 = 5.8$

**Median:** List from small to large. 1,2,3,4,**4,5**,8,8,11,12. Median is between 4 & 5: **4.5**

**Mode:** Appears the most number of times: **Two modes: 4 & 8**

- 4) 89, 90, 79, 94

**Mean:**  $(89 + 90 + 79 + 94) \div 4 = 352 \div 4 = 88$

**Median:** List from small to large. 79,**89,90**,94. Median is between 89 & 90: **89.5**

**Mode:** Appears the most number of times: **There is no mode.**

- 5) In Dakota's first four basketball games he scored a total of 57 points. How many points would he need in the next game to have a 15 point average?

$$\frac{57 + x}{5} = 15 \quad \implies \quad \begin{array}{l} \text{Multiply by 5. Subtract 57.} \\ x = 18 \end{array}$$

- 6) There were 5 babies born at Memorial Hospital last weekend. The length of the babies ranged from 16 inches to 21.5 inches. Their lengths were:  
                   16 in.                   20.5 in.                   19 in.                   21.5 in.                   19 in.

What were the mean, median and mode for these lengths?

**Mean:**  $(16 + 20.5 + 19 + 21.5 + 19) \div 5 = 96 \div 5 = 19.2 \text{ in.}$

**Median:** List from small to large. 16,19,**19**,20.5,21.5 Middle score is the median: **19 in.**

**Mode:** Appears the most number of times: **19 in.**