

## Statistics Test Review

The prices of several watches are shown in the table to the right.

Watch Prices			
\$10	\$15	\$20	\$10
\$80	\$10	\$12	\$25

1. Mean: 22.75      2. Median: 13.5  
 3. Mode: 10      4. Range: 70  
 5. Which piece of data represents the outlier? 80

6. The following numbers represent the number of minutes it took Tanner to drive to work on 10 different days.

**23, 25, 46, 31, 23, 28, 20, 21, 23, 50**

Which measure of the data is represented by 24 minutes?

~~Mode - 23~~
Range - 30  
Median - 24
Mean - 29

7. The high temperatures for a one-week period are shown below.

Day of the Week	High Temperature (F°)
Sunday	104
Monday	90
Tuesday	99
Wednesday	95
Thursday	96
Friday	96
Saturday	92

Which measure (Mean, Median, Mode or Range) is NOT represented by 96°F

8. Six students took a test. The mean score was 88. Five of the scores were 76, 95, 79, 100, and 80. What was the sixth score?

98

$$\begin{array}{r}
 88 \quad 528 \\
 \times 6 \quad - 430 \\
 \hline
 528 \quad \underline{\quad} \\
 \hline
 98
 \end{array}$$

9. The manager of a bike rental store checked the prices at other stores and found the following prices for renting bikes. How much should he charge for the mean and mode to be the same?

- A. \$8.00  
 B. \$9.00  
 C. \$10.00  
 D. \$13.00

Bike Rental Prices

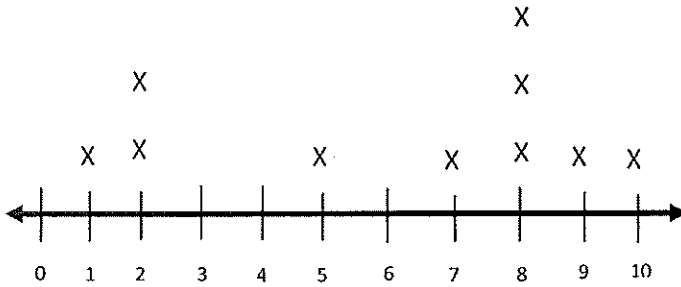
Store	Price
A	\$13.00
B	\$8.00
C	
D	\$9.00
E	\$10.00

↗ use same steps as above  
 → use answer choices as a guide.

10. Mr. Haksell bought 5 Ralph Lauren Polo shirts for \$350. Later he bought another for \$40. What is the mean cost of all the shirts?

\* six shirts total →  $\frac{350 + 40}{6} = \$65$

11. Using the line plot below, find the mean.



$1 + 2 + 2 + 5 + 7 + 8 + 8 + 8 + 9 + 10$

6

10

13. The number of times Pam worked out using her Wii Fit over 6 consecutive weeks during the school year is shown below.

10, 8, 2, 5, 6, 5,

Which statement about Pam's Data is true?

- A. The mean is greater than the median.
- B. The range is equal to the mean.
- C. The range is less than the median.
- D. The range is equal to the mode.

range = 8 mode = 5  
median = 5.5 mean = 4

12. Organizers of a conference know the number of people who attended their conference each of the past 7 years:

585, 725, 688, 700, 590, 630, 700.

Which measure of data would NOT help them determine approximately how many people to expect at their conference this year?

- A. Range
- B. Median
- C. Mode
- D. Mean

14. Given the following stem and leaf plot of math test score:

**Math Test Scores** (out of 50 points)

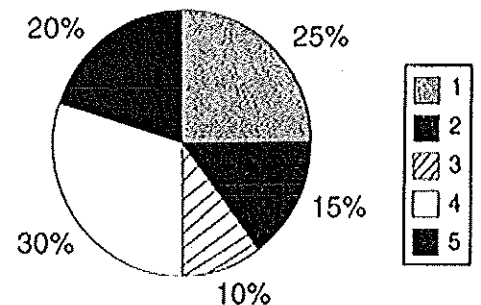
3	5, 6, 8
4	0, 2, 2, 4, 5, 5, 7, 8, 9
5	0, 0, 0

What is the median of the data?

45

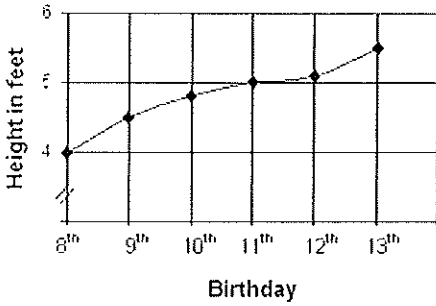
15. Which of the following situations would NOT be best represented by the circle graph shown?

- A. The number of each type of video the Gray family rents over a five-week period
- B. The percentages of the Trujillo family's budget of their income in each of five categories
- C. The percent of students in Ms. Allen's class who prefer each of five different activities on the weekend
- D. The percent of students in Mr. Conley's class who listen to each of five different radio stations



\* circle graphs are used for %'s!

Leticia's Height Each Birthday



16. Leticia measures her height each year on her birthday.

Which conclusion is best supported by the graph?

- A. When Leticia is 14, she will be over 6 feet tall.
- B. Leticia grew the most between her 10th and 11th birthday
- C. Leticia grew more when she was 9 than when she was 8.
- D. Leticia grew over 1 foot between her 8th and 13th birthday.**

Mrs. Hudzietz collected the data from her 3<sup>rd</sup> pd's

Homework grades and displayed it using a line plot.

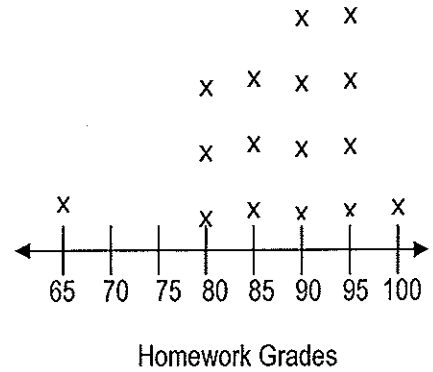
17. What is the range of the scores? **35**

18. Without the "outlier", what is the range of the grades?

**20**

19. What is the median homework grade?

**90**



20. Which table shows the same data as the line plot?

Grade	65	80	85	90	95	100
Number of Students	1	6	6	4	3	1

Grade	1	3	4	6	6	1
Number of Students	65	80	85	90	95	100

Grade	65	80	85	90	95	100
Number of Students	1	3	3	4	4	1

Grade	65	80	85	90	95	100
Number of Students	65	240	340	540	570	100