8.3.D2 - 10R & OUTL1ERS

Name: _____

Past due on: _____ Period: _____

Calculate the five number summary, the IQR, and the upper and lower fences of the given data set. Determine whether there are any outliers in each set and list them. *If necessary, refer to the 8.3 example "Using the Interquartile Range to Determine if a Data Set Contains Outliers" in the Chapter 8 Summary.*

1. 22, 19, 20, 20, 21, 25, 10, 8, 18, 28, 32, 24, & 25

Minimum =

IQR =

Q1 = _____

Upper fence = _____

Median =

Lower fence = _____

Q3 = _____

Outliers:

Maximum = _____

2. 60, 55, 70, 80, 20, 60, 105, 65, 75, 100, 55, 15, 115, 65, 70, 45, & 60

Minimum = _____

IQR =

Q1 = _____

Upper fence = _____

Median = _____

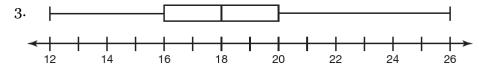
Lower fence = _____

Q3 = ____

Outliers:

Maximum = _____

Calculate the IQR and the upper and lower fences of the given data set. Determine whether there are any outliers in each set and list them. *If necessary, refer to the 8.3 example "Using the Interquartile Range to Determine if a Data Set Contains Outliers" in the Chapter 8 Summary.*

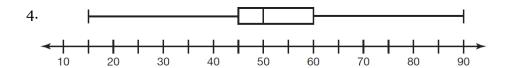


IQR = ____

Upper fence = _____

Lower fence = _____

Outliers:

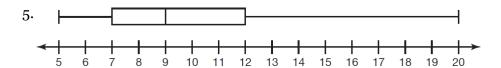


IQR = ____

Upper fence = _____

Lower fence = _____

Outliers:

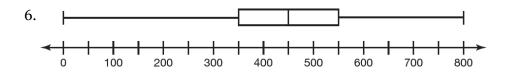


IQR = _____

Upper fence = _____

Lower fence = _____

Outliers:



IQR = _____

Upper fence = _____

Lower fence = _____

Outliers:

Create a dot plot of the given data set. Calculate the mean and median. Determine which measure of center — mean or median — describes each data set. *If necessary, refer to the 8.2 example "Determining the Measure of Center which Best Represents a Data Set" in the Chapter 8 Summary.*

7. 50, 50, 40, 70, 60, 50, 20, 50, 80, 40, 60, 40, & 50

Dot plot:

Mean = _____

Median = _____

Best measure of center:

8. 40, 45, 48, 49, 50, 49, 47, 50, 49, 42, 49, 50, 48, 50, & 47

Dot plot:

Mean = _____

Median = _____

Best measure of center:

SPIPAL ROVIGW - Refer to your 1st Semester Summary or your guadratics card.

- 9. Alicia purchased *H* half-gallons of ice cream for \$3.50 each and *P* packages of ice cream cones for \$2.50 each. She purchased 14 items and spent \$43. Write a system of linear equations that can be used to determine how many of each item Alicia purchased. *Do not solve*.
- 10. The domain of the function $f(x) = 2x^2 8$ is $\{-2, 3, 5\}$. What is the range?
- 11. Find the polynomial that is twice the sum of $4x^2 x + 1$ and $-6x^2 + x 4$.
- 12. What are the solutions to the quadratic equation $3(x-4)^2 = 27$?
- 13. Which expressions are equivalent to $4x^2 4x 120$? Select ALL that apply.

A.
$$2(2x^2 - 2x - 60)$$

B.
$$4(x^2 - x - 30)$$

C.
$$4(x+6)(x-5)$$

$$D. 4x(x-1) - 120$$

14. The tables below show the values of four different functions for given values of *x*. Which table represents a linear function?

x	f(x)
1	12
2	19
3	26
4	33

x	g(x)
1	-1
2	1
3	5
4	13

X	h(x)
1	9
2	12
3	17
4	24

x	k(x)
1	-2
2	4
3	14
4	28