Pre-test MTH 223-01 NS II 46%

Score 5.5/12

Nam [redacted]

Date 1/13/2020

+1 **1.** The length of a rectangular garden is 3 feet less than 5 times the width. If *w* is the width, write the expression for the length in terms of *w*. 5w - 3

+1 **2.** Determine the mode for the following set of numbers. 24, 32, 44, 32, 16, 24, 50, 24
Write the mode and explain why that is your answer. 24
It's the number that is most frequent number.

3. A technology company founder buys an estate in California for three times the previously highest recorded sale price of any property. Which statewide housing market statistic will be most affected? Choose one and defend your answer.

Range Median Mode Mean

It will change or raise the average cost of the housing market.

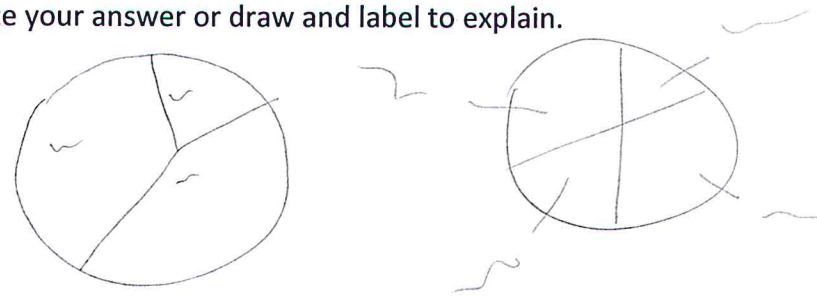
4. Draw a box-and-whisker plot for the following test scores in an Algebra class. Include an asterisk (*) for the outlier.

Test scores: 99, 60, 97, 73, 95, 74, 81, 81, 82, 94, 92, 90, 86, 83, 84

It's been too long since I have done one of these. :(

+1 **5.** What is the difference between a pie chart and an exploding pie chart? Write your answer or draw and label to explain.

pie chart (info inside)



exploding pie chart (info on outside)

6. If you were to flip a coin three times, what would the probability be that you would flip tails two of the three times? Diagram and write your answer.

I don't know. :(

7. List the sample space for the following experiments:

A. Tossing a penny and a nickel.

I am not sure what a sample space is.

B. Tossing a quarter and rolling a single die.

8. Draw and label the following variety of triangles:

~~A.~~ scalene
~~B.~~ isosceles
C. equilateral
D. one containing a right angle

A
B
C
D

9. Write the formula for finding the volume of a rectangular solid. lwh

10. Write the formula for finding the volume of a cone. $\frac{1}{2} \cdot bh$

11. Which of the following figures has the one line of symmetry? Why?

equilateral triangle
~~isosceles trapezoid~~
rectangle
scalene triangle

you can only split equally one way?

12. If a student reads the decimal 0.034 as "thirty-four hundredths" is he correct? If you answered no, what should the student have read?

no, "thirty-four thousandths"