Math Concepts Problem Set 7
Assigned Friday 10/19, due Friday 10/26
No Work Shown, No Credit Given

Name $\qquad$

Period $\qquad$

Problems \#1-\#8 can be completed on this paper. The work for problems \#9-\#14 needs to be attached on a separate piece of paper.

1. Finish the stem-and-leaf plot for the following set of data: $64,87,52,12,17$, $23,45,88,45,92,62,76,77,34$, and 53.
2. Write each set of decimals from least to greatest.
a) $0.0089,0.03,0.011$
b) $47.2,47.197,47.05$
c) $7.891,7.91,7.8$
3. Which numbers are between 2.41 and 2.49 ? Circle all numbers that apply.
2.42
2.44
2.4
2.411
2.5
4. Given the data in the table, complete the histogram below to represent families of various sizes. Remember that data falling on a tick $\operatorname{mark}(3,6,9, \ldots)$ goes in the bin to the right of that mark.

| Student | \# of Family <br> Members |
| :---: | :---: |
| LaTrese | 4 |
| James | 8 |
| Phu | 7 |
| Byron | 3 |
| Evan | 2 |
| Diamond | 11 |
| Jackie | 5 |
| Antonio | 5 |
| Shinna | 6 |
| Ryan | 8 |


5. Find the area ("tiles") and perimeter ("toothpicks") of the shape below that was cut from graph paper. Each tile is a square centimeter.

Area $=$

## Perimeter $=$


6. Write down at least three different pairs of numbers that add together to get 1 .

7. Fill in the missing numbers on each number line above.
8. Find three fractions that are equivalent to one-half.
----------- Please show your work for \#9-\#14 on a separate piece of paper. -------------
9. Write the prime factorization for each number. Try to use exponents in your answer.
a) 81
b) 48
c) 99
d) 150
10. Find the value of each exponent expression: $\mathbf{a )} 9^{2} \quad$ b) $11^{2} \quad$ c) $5^{4} \quad$ d) $10^{5}$
11. Add or subtract. Remember to line up the decimal points.
а) $97.1-35.04$
b) $4.2+1.903$
c) $42-1.7$
d) $9.67+4.7+5$
12. Draw and label two different rectangles, each with a perimeter of 12 units. Do the rectangles have the same area? Explain your thinking.
13. Jenny has been saving her babysitting money for a class field trip to Washington, D.C. She wants to save $\$ 200.00$ over three months. She saved $\$ 53.00$ the first month and $\$ 67.00$ the second month. Show the work to find the amount of money she still needs to earn.
14. Janelle and three of her friends bought four smoothies of equal cost for a total of $\$ 6$. If she purchases the same smoothies on another day for herself and nine of her friends, how much money will she spend?

