Math Concepts Problem Set 4
Assigned Friday 9/27, due Friday 10/4
No Work Shown, No Credit Given

Name $\qquad$

Period $\qquad$

Problems \#1-\#7 can be completed on this paper. The work for problems \#6-\#9 needs to be attached on a separate piece of paper.

1. Round each number to the indicated place value.
a) 6.253 (tenths)
b) 0.7891 (thousandths)
c) 0.0072 (hundredths)
d) 9.126 (hundredths)
e) 23.1089 (tenths)
f) 17.2359 (thousandths)
2. Match each expression with one of the word descriptions below.
$8(12)+7$
$6(20)+5$
7 + 11(10)
$9(12)+5$
a) 11 piles of 10 pennies with 7 leftover pennies
b) A rectangular array of pennies that is 9 pennies long and 12 pennies wide with 5 leftover pennies.
c) 8 stacks of 12 pennies with 7 leftover pennies
d) A rectangular array of pennies that is 6 pennies wide and 20 pennies long with 5 leftover pennies
3. Write a mathematical expression to represent each diagram below.
a)

b) 888 888 000
c) Find the numerical value for each diagram above.

4. How many "hands" long is your bed?
a) Using your hands as units of measure, first estimate (without actually counting) the number of "hands" that you think will fit across the length of your bed.
b) Now measure and record the length of your bed using your hands.
5. Find the area and the perimeter for each figure.
a) Area $=$
b) Area $=$
c) Area $=$
Perimeter $=$
Perimeter $=$
Perimeter $=$
3


6. Use your knowledge of place value to place the correct inequality sign (< or >) between each pair of numbers.
a) 3.06
3.008
b) 5.207
5.27
c) $2.408 \quad 2.5$
7. Write each decimal number.
a) sixteen thousandths
b) four and five hundredths
c) niney-two hundredths

Please show your work for \#8-13 on a separate piece of paper, and staple to this homework.
8. A line segment is a piece of a straight line. On your paper, draw two line segments that are the same length and each about as long as a pen.
a) Draw marks on the first line segment to show how you can divide it into eight equal lengths.
b) Draw marks on the second line segment to show how you can divide it into five equal lengths.
c) Was one of these tasks easier than the other? Which one? Why?
9. How many pennies are represented by each expression below?
a) $3+4(5)$
b) $9 \cdot 12+5$
c) $7+11(10)$
d) $2(3)+5+4(2)$
10. A newspaper carrier can deliver 48 papers in two hours. At that rate, how many newspapers can the carrier deliver in three hours?
11. Aria and 19 of her friends plan to go to a baseball game. They all want to sit together. Aria wants to order the seats in the shape of a rectangle, but she cannot decide on the best arrangement. She starts by considering one row of 20 seats.
a) Draw a diagram showing Aria's idea for a seat arrangement.
b) Draw all of the other possible rectangular arrangements for 20 seats. Label each arrangement with its number of rows and the number of seats in each row.
c) Are all the arrangements above practical? Explain.
12. Using whole numbers, fractions, and decimals, write at least eight addition equations that have a sum of 10 . Write more if you can.
13. Study the dot pattern to the right.
a) Sketch the $4^{\text {th }}$ and $5^{\text {th }}$ figures.
b) Describe how the pattern is growing.
c) How many dots will the $50^{\text {th }}$ figure have?


Figure 1
Figure 2
Figure 3

