Math Concepts Problem Set 2 **Name**_____
Assigned Friday 9/13, due Friday 9/20
No Work Shown, No Credit Given **Period**_____

Problems #1-#7 can be completed on this paper. The work for problems #4-#9 needs to be attached on *a separate piece of paper*.

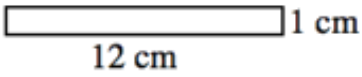
1. Write each decimal number.

a) Fifty-nine thousandths **b)** Eight and eighteen hundredths

c) Seventy and three tenths **d)** Six hundred forty-two thousandths

2. Find the area and perimeter of each rectangle.

a)

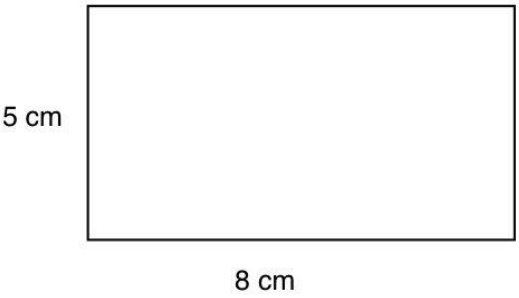


Area =

Perimeter =

b) Area =

Perimeter =



3. Write each decimal in word form.

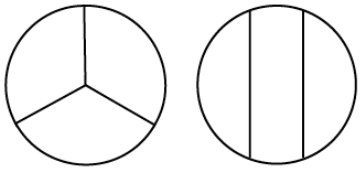
a) 6.02 **b)** 12.005 **c)** 300.7 **d)** 1.028

4. a) How many dots are in figure 10? Draw it.

Figure 1 Figure 2 Figure 3

b) How many dots are in figure 31? Do not draw it. *Explain* how you know your answer.

5. Nadine and Diondra were working together to divide a circle into three equal parts. They came up with the diagrams shown below. Telownisha said, *"One of these pictures is wrong."* What do you think? Is one picture incorrect? If so, which one? Why?



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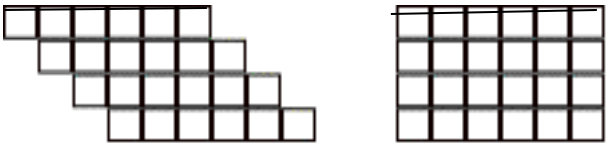
6. Mike and Andrea were discussing the shapes shown below. Mike felt they had equal areas but different perimeters. Andrea said, "If the areas are the same, then the perimeters as well."

a) What is the area and perimeter of the first shape?

b) What is the area and perimeter of the second shape?

c) Explain who is correct, Mike or Andrea.



--------- **Show your work for #7-#9 on a <u>separate piece of paper</u>.** Staple it to this sheet.--------

7. Study the dot pattern to the right.

a) Draw figure 4 and figure 5.

b) Describe <u>in words</u> how the pattern is growing.

c) Draw figure 10.

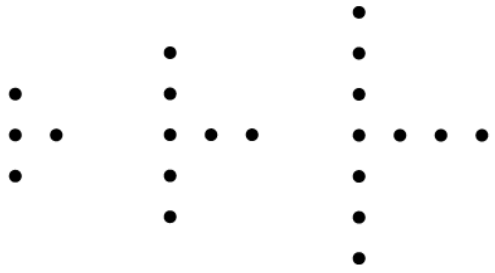


Figure 1 Figure 2 Figure 3

8. Eli walked 12 feet down the hall of his house to get to the door. He continued in a straight line out the door and across the yard to the mailbox, a distance of 32 feet. He came straight back across the yard 14 feet and stopped to pet his dog.

a) <u>Draw a diagram</u> of Eli's walking pattern.

b) How far has he walked?

c) How far from the house is he now?

9. Use the bar graph on the right to answer the following questions.

a) How many people attended the fair on Tuesday?

b) Which day had the largest attendance?

c) What was the total attendance for the week?
(Hint: more than 10,000 people attended.)