

SUNSHINE MATH - 7
Neptune, XXV

Name: _____
(This shows my own thinking.)

- ★ 1. If you already have scores of 83%, 91% and 86% on your first three math tests, what could your highest possible average be after 4 tests? (Assume no extra credit.)

Answer: _____%

- ★★ 2. Using 4 fours with any operations or grouping symbols, write an expression that has a value of 5.

4 4 4 4

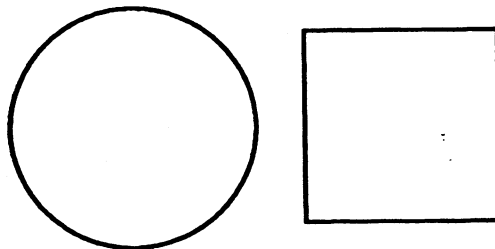
Answer: _____

- ★ 3. Figure out a rule which was used to determine which letters go above the line and which letters go below the line. Use that rule to place the rest of the letters correctly.

A E F H I K L M N

B C D G J O

- ★★★★ 4. The perimeter of a square is equal to the circumference of a circle.



If the diameter of the circle is 8, what is the area of the square?

Answer: _____ sq. units

- ★★★★ 5. This is the same pattern looked at 2 different ways. Write the next term in the pattern. Find two ways to describe how to find each new term.

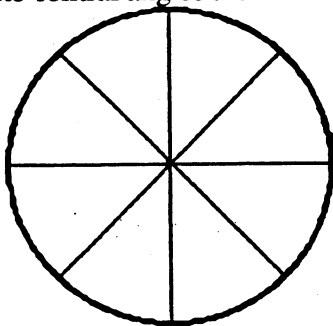
4, 7, 13, 25, 49, _____, ...

One way to describe the next term is: _____

4, 7, 13, 25, 49, _____, ...

Another way is: _____

- ★★★★ 6. How many acute central angles are in this figure? Right angles? Obtuse angles?



Answer: _____ acute angles

Answer: _____ right angles

Answer: _____ obtuse angles

- ★★★ 7. Your heart beats approximately 70 times a minute. The life span expectancy of a male is 75 years, and that of a female is 79 years. To the nearest billion, how many times will your heart beat if you live to your life expectancy?

Answer: _____ beats

- ★★★★ 8. Cookies were missing from the kitchen. They were taken by Sam, Bob, or Sue. Each made a statement to their mother.

Sam said: Bob took the cookies

Bob said: That is true.

Sue said: I did not take the cookies.

If at least one of them lied and at least one told the truth, who took the cookies?

Answer: _____