

Guided Reading -- Fibonacci and Pythagoras

PART A

Conduct a research on Fibonacci and Pythagoras and answer the questions below.
Some websites that you can use are:

<http://www-groups.dcs.st-and.ac.uk/~history/Mathematicians/Fibonacci.html>

<http://www-groups.dcs.st-and.ac.uk/~history/Mathematicians/Pythagoras.html>

http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Mathematical_games.html

1. Fibonacci was born in _____ but was educated in_____.
2. His publication, _____, introduced the Hindu-Arabic place-value system and the use of _____ numerals into Europe.
3. Fibonacci is famed for his invention of the sequence _____, where each number is the sum of the previous two.
4. The Fibonacci sequence does not appear in his book, but his problem about _____ does.
5. Pythagoras was born in the year _____.
6. Pythagoras was a Greek _____ responsible for important developments in _____, _____, and the theory of _____.
7. Pythagoras and his followers noticed that vibrating _____ produce harmonious _____ when the ratios of the _____ of the strings are _____ numbers. These ratios could be extended to other _____.

NOTE: If you don't find the exact answers, then you are required to write two to three paragraphs explaining important aspects about the life of Fibonacci and Pythagoras and why they are famous in the field of Mathematics.

PART B.

Search Fibonacci and Pythagoras to read about links or relationships between mathematics and music.

Then you will use a word processing program to complete a free write response to these questions:

1. **What I have learnt,**
2. **What I think about what I have learnt, and**
3. **What I would still like to learn.**