QUIZ #2: 03/17/2010

NAME:_____   TOTAL_____/20

PART I: LONG-ANSWER QUESTION (10 points)

(5 points) Draw a diagram which illustrates a proof of Pythagoras theorem. **DRAW CLEARLY!**

(5 points) Use your diagram to give a proof of Pythagoras theorem. **WRITE LEGIBLY!**

BONUS (2 points): Give the name of the historical mathematician who is identified with the image and proof you provided and the approximate year in which it first appeared.

PART II: SHORT-ANSWER QUESTIONS (10 points)
Write down whether the following sentences are either TRUE or FALSE.

A. _____ The Chinese remainder problem was really first discovered in Indian

mathematical writings.

B. _____ The basic result of Pythagoras Theorem was known to many non-Greek

cultures in India and Asia.

C. _____ Our modern decimal numeral system is based on ideas from Indian and

Islamic mathematicians.

D. _____ Much of what we know about ancient Chinese mathematics is based on

translations into Arabic.

E. _____ Much of what we know about ancient Greek mathematics is based on

translations into Arabic.

F. _____ Liu Hui built upon the mathematical ideas of Brahmagupta.

G. _____ Bhaskara built upon the mathematical ideas of Aryabhata.

H. _____ Al-Khwarizmi is called the "father of algebra."

I. _____ The earliest known magic square is attributed to Islamic Mathematicians..

J. _____ By the 6th century major portions of geography that had been controlled by

Roman emperors was now controlled by Islamic caliphs.