*History of Mathematics WebQuest*

*Directions:*

Find the answer to each question.

Write the answer.

Cite the website where you found the answer.

Good Luck!

1. When and where did Pythagoras live?

2. What was the name of the group founded by Pythagoras?

3. Why was this group described as cult-like?

4. What type of numbers did the Pythagoreans discover?

5. What was the “problem” with the numbers called “alogon” and what does this term mean?

6. Why is there little information about who wrote the geometric proofs credited to Pythagoras and his followers?

7. When and where did Euclid live?

8. What subjects did Euclid’s book *Elements* cover?

9. Where is it believed Euclid was educated?

10. Who was Euclid probably a mentor to?

11. To whom can many of the theorems in Euclid book be traced to?

12. Why was Euclid’s *Elements* important to the various schools of mathematics at the time?

13. List 15 areas of mathematics included in *Elements*.

14. Compare the criticism of Euclid’s work by modern mathematicians and mathematicians of his time?

15. What is Euclid’s Thoerem?

16. What does the postulate that Euclid was unable to prove deal with?

17. Augustus De Morgan was an innovator of what field of mathematics?

18. Where and when did De Morgan live?

19. What did De Morgan consider studying before deciding on Math?

20. What were the names of the societies that De Morgan belonged to? Which was he the founder of?

21. What were some of the fields of Math that De Morgan wrote on?

22. What was De Morgan’s major contribution to the field of Math?

23. Who is Sir William Hamilton and what connection did he have to De Morgan?

24. Which De Morgan’s works is considered the first scientific bibliography?

25. When and where did Archimedes live?

26. What three “nicknames” did Archimedes have?

27. What are of Mathematics is Archimedes known for?

28. What is known as the “Archimedes Principal?”

29. By what means was Archimedes able to move a ship that previously had been impossible to launch?

30. Archimedes’ approximation of what number was the most accurate of his time? What was the value of this approximation?

31. Describe Archimedes greatest invention?

32. What was inscribed on Archimedes tombstone? Why?

33. What base did the Mayan’s use in their mathematics?

34. Explain what Franklin’s magic square are and how they work.

35. By what method did the ancient Babylonians approximate square roots? Present an example.

36. When and by whom did the concept of negative numbers come into effect? Present an example.

37. What is the significance of the number 153?

38. What are the three means we still use today that were defined by the Ancient Greeks.

39. What are the names of the two ancient Greek authors that gave a listing of 10 means.

40. Which number does Woody Allen believe to have been written wrong throughout history?

41. According to James Caballero, what might you hear if you decide to stop taking mathematics?

42. What is Albert Einstein’s famous quote about the difficulties of mathematics?

43. What did Galileo Galilei believe is the language of the universe and what are the letters of this language?

44. What did Leonardo da Vinci believe to be the fruits of mathematics?

45. What was Blaise Pascal’s opinion of contradiction?

46. What was the reason Malcolm X disliked mathematics?

47. What is the Fibonacci Rabbit problem?

48. Solve the problem in #47.

49. Where and when is it believed the first mathematics originated?

50. Find the name of the mathematician born circa 790AD near Baghdad and explain what his contribution to mathematics was.