

1. Who is credited with introducing the symbol for *infinity*?
 - a. Pythagoras
 - b. John Wallis
 - c. Georg Cantor
 - d. George Boole
 - e. NOTA

2. One of Einstein's famous quotes is ".If A is success in life, then A equals X plus Y plus Z. Work is X, Y is play, and Z is ____.""
 - a. making friends
 - b. not acting stupid
 - c. keeping your mouth shut
 - d. determination
 - e. NOTA

3. ____ created the first working mechanical calculator in 1642.
 - a. Fermat
 - b. Pascal
 - c. Descartes
 - d. Newton
 - e. NOTA

4. Created by W.R. Hamilton and Thomas Kirkman, the Traveling ____ Problem is popular within the field of computer science.
 - a. Salesman
 - b. Librarian
 - c. Pilot
 - d. Doctor
 - e. NOTA

5. Of the following twentieth century mathematicians, who passed away most recently?
 - a. Paul Erdos
 - b. Benoit Mandelbrot
 - c. John Nash
 - d. Paul Cohen
 - e. NOTA

6. Around 300 B.C. Hindu cultures gave the Sanskrit word ____ to denote zero.
 - a. shunya
 - b. sapta
 - c. kam
 - d. pancha
 - e. NOTA

7. Euclid is famous for his book *The Elements*. Book III is primarily about _____.
 - a. geometric algebra
 - b. ratios and proportions
 - c. number theory
 - d. regular solids
 - e. NOTA

8. In northwestern Brazil there is a small tribe of people known as the ____ Tribe. Their unique culture makes headlines due to their simplistic language. In fact, they have no exact words to represent numbers. Instead, they use words for quantities such as "a few" and "a lot."
 - a. Piraha
 - b. Miranha
 - c. Tapuio
 - d. Arara
 - e. NOTA

16. Which one of the following died in his early twenties?
- a. Pascal b. Fermat c. Gauss d. Galois e. NOTA
17. The word *hundred* is actually derived from the word *hundrath* which means ____.
- a. 100 b. 200 c. 110 d. 10 e. NOTA
18. The word *mathematics* is found in only one of Shakespeare's plays. Which one?
- a. *The Taming of the Shrew* b. *Hamlet* c. *Romeo and Juliet* d. *Othello*
e. NOTA
19. Which female mathematician attended University of Erlangen but was only allowed to audit classes because of her sex? Later in life she moved to America and taught at a college in Pennsylvania.
- a. Emmy Noether b. Sophie Germain c. Julia Robinson d. Ada Lovelace
e. NOTA
20. Because small rocks were once used to count and represent numbers, the word *calculus*, which means ____ in Greek, was chosen to denote that field of mathematics.
- a. pebbles b. gems c. quartz d. earth e. NOTA
21. Inspired by Rene Descartes, ____ created a painting called The Square Root of Two.
- a. Paolo Uccello b. Christopher Alexander c. Man Ray
d. Crockett Johnson e. NOTA
22. Thought to be one of the oldest mathematical artifacts, the Lebombo Bone is the ____ of a baboon.
- a. femur b. tibia c. fibula d. humerus e. NOTA
23. The smallest non-trivial mathematical group has how many elements?
- a. 1 b. 2 c. 3 d. 4 e. NOTA
24. The Pythagorean Theorem goes by several different names in the world of mathematical folklore. Which of the following is *not* one of those names?
- a. The Peacock' Tail b. The Bride's Chair c. The Windmill d. The Dresser's Drawer
e. NOTA

25. Which of the following fractions has a strong association to the Fibonacci Sequence?

- a. $1/11$ b. $1/89$ c. $3/17$ d. $1/99$ e. NOTA

26. Which of the following movies is about Srinivasa Ramanujan?

- a. *A Beautiful Mind* b. *N is a Number* c. *Breaking the Code*
d. *The Man Who Knew Infinity* e. NOTA

27. At the second meeting of the International Congress of Mathematicians in 1900, this man posed his collection of 23 math problems that he believed should be studied in the upcoming century.

- a. David Hilbert b. G.H. Hardy c. Georg Cantor d. Arthur Cayley
e. NOTA

28. Many are aware that Lewis Carroll was not only a writer, but a mathematician as well. This book, written by Alan Garner, concludes with a message written from Tom to Jan, written in code inspired by Lewis Carroll's Alphabet Cipher.

- a. *The Owl Service* b. *Red Shift* c. *The Golden Brothers* d. *Lad of the Gad*
e. NOTA

29. Which of the following is *not* an award in the field of mathematics?

- a. Chern Medal b. Abel Prize c. Booker Prize d. Fields Medal
e. NOTA

30. Many mathematicians have given their thoughts over the value of a number divided by zero. Who declared that a number divided by zero is equal to infinity?

- a. Brahmagupta b. Mahavira c. Bhaskara d. Diophantus
e. NOTA