- 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 friendsb. not acting stupidc. keeping your mouth shutd. determinatione. 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
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- 9. Because of the hosting country's strong attachment to the number, the Beijing Olympics opening ceremony was held on _____ (month/date) in 2008.
- a. 8/8 b. 7/7 c. 6/6 d. 9/9 e. NOTA
- 10. The Infinite Monkey Theorem, developed in 1913, poses the idea that if you have an infinite number of monkeys positioned at typewriters and you keep them adequately fed and watered, one of them will eventually type out a complete text such as Hamlet just by pressing random keys. In an episode of The Simpsons, there is a spoof on this theorem where Mr. Burns has 1000 monkey typing and one of them comes close to randomly typing the first line of Dicken's *A Tale of Two Cities* as "It was the best of times it was the _____ of times.
- a. jurst b. blurst c. thirst d. gurst e. NOTA
- 11. Named after its creator, the _____ Abacus is used by the blind. A soft cloth or rubber is used to keep the beads in place allowing the user to manipulate them in order to perform mathematical calculations.
- a. Felix b. Poncelet c. Levio d. Cranmer e. NOTA
- 12. Until 1536 only five perfect numbers were known to exist. Who found both a sixth and seventh perfect number?
- a. Pietro Cataldib. Hudalrichus Regiusc. Marin Mersenned. Hans Riesele. NOTA
- 13. Although the creator of the original protractor is unknown, _____ invented the three-arm protractor in 1801.
- a. Pierre Fatoub. Joseph Huddartc. John Horton Conwayd. Claude Shannone. NOTA
- 14. One of the earliest occurrence of complex numbers is found in *Ars Magna* written by Girolamo Cardano which was published in 1545. In it, there exists a problem whose solution requires the square root of what number?
- a. -2 b. -4 c. -10 d. -15 e. NOTA
- 15. The word "jiffy" has specific mathematical origins. Gilbert Newton Lewis suggested that the word be used to define the amount of time that it takes light to travel one ______inside a vacuum.

a. inch b. centimeter c. meter d. foot e. NOT	a. inch	b. centimeter	c. meter	d. foot	e. NOTA
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16. Which one of	f the following	died in his earl	y twenties?		
a. Pascal	b. Fermat	c. Gau	ISS	d. Galois	e. NOTA
17. The word hu	ndred is actuall	y derived from	the word <i>huna</i>	<i>lrath</i> which m	eans
a. 100	b. 200	c. 110	d. 10	e. NOTA	
18. The word ma	<i>thematics</i> is fo	und in only on	e of Shakespea	re's plays. Wł	nich one?
a. <i>The Taming of</i> e. NOTA	the Shrew	b. Hamlet	c. Romeo and	<i>Juliet</i> d. O	thello
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 e. NOTA	b. Sop	hie Germain	c. Julia Rob	inson d	. Ada Lovelace
20. Because small rocks were once used to count and represent numbers, the word <i>calculus</i> , which meansin Greek, was chosen to denote that field of mathematics.					
a. pebbles	b. gems	c. quartz	d. eart	:h 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. hun	nerus	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 Pythagor mathematica	rean Theorem ۽ al folklore. Wh	goes by several ich of the follo	l different name wing is <i>not</i> one	es in the world of those nam	l of es?
a. The Peacock' T e. NOTA	ail b. The Bri	ide's Chair c	. The Windmill	d. The Dres	ser's Drawer

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. <i>Red Shift</i>	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			