

## NAT I Arts Quantitative

Sr	Questions	Answers Choice
1	The value of $\{0.5^4 - 0.4^4\} / \{0.5^2 + 0.4^2\}$ is?	A. 0.9 B. 0.09 C. 0.19 D. 0.31
2	$(x+y)^2=25$ and $x^2+y^2=13$ then xy is equal to?	A. 16 B. 20 C. 18 D. 6
3	1/2 of 44÷ 2.2 =?	A. 20 B. 22 C. 44 D. 100
4	Find the value of x if $3:b=x:c$ .	
5	If $a^2$ - $b^2$ =36 and a-b =12 then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. 3/2
6	The annual decrease in the population of a city was 10% and the present number of inhabitants is 1620. What was the population 2 years hence?	A. 20 B. 400 C. 2000 D. 1000
7	A rectangular lot 50 feet by 100 feet is surrounded on all sides by a concrete walk 5 feet wide. Find the number of square feet in the surface of the walk.	A. 1600 B. 5250 C. 5500 D. 6100
8	1250÷ 25 x 0.5 = ?	A. 25 B. 50 C. 2.5 D. 100
9	A car that gets 15 miles per gallon of gasoline can travel 250 miles on a full tank. If the same car got 20 miles per gallon, how many miles could it travel on a full tank?	A. 300 B. 750 C. 250 3/5 D. 333 1/3
10	Find the ratio of 18 inches to 2 yards.	A. 3/4 B. 1/4 C. 1/5 D. 2/5
11	If a machine can place a cap on a bottle of soda every 0.8 seconds, how many bottles can be capped in 2 hours?	A. 8000 B. 9000 C. 300 D. 900
12	√169 /196 x 14/√1521 =?	A. 13/42 B. 1/13 C. 42/5 D. 1/42
13	If 3x+5y=10 and 3y+5x=30 then average if 'x' and 'y' is?	A. 3/2 B. 4 C. 5/2 D. 7/2
14	A factory employs M men and W women. What part of its employees are women ?	A. W/(W+M) B. W/M C. (W+M)/M D. M/W
15	Which of the following is the sum of two consecutive prime numbers?	A. 66 B. 52 C. 41 D. 29
16	If x + 3y =7 and 2x + y =5 then value x/y is?	A. 1/2 B. 1/3 C. 2/5

		D. 8/9
17	If the sum of the interior angles of a regular polygon measures up to 1440 degrees, how many sides does the polygon have ?	A. 10 sides B. 8 sides C. 12 sides D. 9 sides
18	t is an integer greater than 5. The expression that must represent an odd integer is	A. t(t+1) B. 3t-1 C. t <sup>2</sup> D. 2t-3
19	If x% of 60 =48, then x=?	A. 80 B. 60 C. 90 D. 40
20	If $(x+1/x)^2=96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90