

## NAT II Arts & Humanities Quantitative

Sr	Questions	Answers Choice
1	If the radius of the circle is halved, then its area	A. Remains same B. Become half C. Become quarter D. Become double E. Not changed
2	The value of $(x + y)^2 - (x - y)^2$ is?	A. 4 B. $(x^2 + y^2)$ C. $4xy$ D. $-4xy$
3	If $x\%$ of 60 = 48, then $x = ?$	A. 80 B. 60 C. 90 D. 40
4	$(x + y)^2 = 25$ and $x^2 + y^2 = 13$ then $xy$ is equal to?	A. 16 B. 20 C. 18 D. 6
5	$\frac{2}{3} \times 12 =$	A. 4 B. 6 C. 8 D. 10 E. 18
6	When $3x^2 + 5x + 7$ is subtracted from $x^2 + 8x + 3$ the result is?	A. $5x^2 - 3x + 4$ B. $3x - 2x^2 - 4$ C. $x^2 + 8x + 10$ D. $11x^2 - 3x + 10$
7	$(60)^2 = ? \times 72$	A. 36 B. 3600 C. 40 D. 50
8	12% of $x = 360$	A. 250 B. 100 C. 400 D. 3000
9	The average (arithmetic mean) of $8a + 5$ , $-3a$ , 9, 0 and $7a - 2$ ?	A. $3a + 1$ B. $3a + 3$ C. $4a + 1$ D. $4a + 4$ E. $12a + 12$
10	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
11	A man bought 27 packets of Chilli Milli at \$280 each, 9 packets of Chilli Milli at \$320 each and 6 packets of Chilli Milli at \$360 each. Find the average price per packet of Chilli Milli.	A. \$250 B. \$300 C. \$400 D. \$380
12	$\frac{1}{2}$ of $44 \div 2.2 = ?$	A. 20 B. 22 C. 44 D. 100
13	A number which is divisible by both 6 and 8 is also divisible by	A. 7 B. 5 C. 11 D. 9 E. 24
14	If 'x' and 'y' are positive and $\frac{1}{x} = 3 + \frac{1}{y}$ is 'x' greater than 'y'?	A. Yes B. No C. It cannot be determined D. They are equal

15	If the ratio of $x : y$ is $9 : 7$ , then $x + y$ is	A. 16 B. 2 C. 1 D. None of the above
16	If $(x + 1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90
17	Which of the following is closest to the square root of $1/2$ ?	A. 0.7 B. 0.6 C. 0.8 D. 0.25 E. 0.5
18	Question Image	A. 1.425 B. 1.585 C. 1.330 D. 0.750 E. 1.750
19	$.007 \div \sqrt{.000049}$	A. 1 B. .0049 C. 2 D. 7
20	If 10 tractors are needed to plow a field in 4 hours, how many tractors are needed to plow the field in 5 hours?	A. 32 B. 4 C. 16 D. 8