

## Quantitative Reasoning Algebra Test For Nat

Sr	Questions	Answers Choice
1	Find the ratio of 18 inches to 2 yards.	A. $\frac{3}{4}$ B. $\frac{1}{4}$ C. $\frac{1}{5}$ D. $\frac{2}{5}$
2	The value of $x^2 + 5x + 6$ at $x=2$ is:	A. 10 B. 14 C. 18 D. 20
3	In solving an arithmetic example, Donna, by mistake multiplied by 6 instead of dividing by 6. If her answer was $13 \frac{1}{5}$ , what should be the correct answer to the example?	A. $2 \frac{8}{11}$ B. $\frac{5}{66}$ C. $2 \frac{1}{5}$ D. $\frac{11}{30}$
4	If $a^2 - b^2 = 36$ and $a - b = 12$ then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. $\frac{3}{2}$
5	Find the value of x if $3:b=x:c$ .	A. $\frac{3b}{c}$ B. $\frac{c}{3b}$ C. $\frac{2c}{3b}$ D. $\frac{3c}{b}$
6	$2x^2y$ when multiplied with $x^2 + y^2$ gives ?	A. $2x^2y^2 + 2xy^3$ B. $2x^4y + 2x^2y^3$ C. $2xy^2 + 2x^2y^3$ D. $2x^3y + 2x^2y^3$
7	The value of $(x+y)^2 + (x-y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
8	If $3 \frac{1}{5} c = 2 \frac{1}{2} b$ and $c \neq 0$ , then $b/c = ?$	A. $\frac{25}{32}$ B. $\frac{7}{8}$ C. $\frac{32}{25}$ D. $\frac{11}{10}$
9	The population of a city increased in two years from 25,000 to 30,000; find the percent increase during the time.	A. 10% B. 20% C. 40% D. 5%
10	If a train travels $\frac{5}{6}$ miles in $1 \frac{1}{4}$ minutes, how many miles will it travel in 1 hour?	A. 20 miles B. 50 miles C. 40 miles D. 30 miles
11	One-sixth of a day is what part of the time between 3 p.m. Monday and 3 p.m. Thursday of the same week ?	A. $\frac{1}{10}$ B. $\frac{1}{18}$ C. $\frac{1}{15}$ D. $\frac{1}{12}$
12	The death rates for three diseases are : Disease R 2 People out of 10,000 Disease S 13 People out of 1,000,000 Disease T 9 People out of 100,000 Disease R 2 People out of 10,000 What is the combined death rate for the three diseases?	A. 123 out of 1,000,000 B. 42 out of 10,000 C. 42 out of 1000,000 D. 303 out of 1,000,000
13	If $(36)(?) (7) = 21$ , then ? equals	A. $\frac{21}{43}$ B. $\frac{1}{42}$ C. $\frac{1}{12}$ D. $\frac{1}{11}$
14	Out of the 44 boys in a class 9 are of the age of 10, 15 at the age of 9, and the rest are at	A. 7.85 B. 8.75 C. 10.25 D. 11.25

	the or 8. Find their average age.	C. 12.2 D. 14.35
15	How many tens are equal to the number whose hundreds, tens, and units digits are a, b, and c, respectively ?	A. b C. $10a+b+c$
16	Which of the following is the sum of two consecutive prime numbers?	A. 66 B. 52 C. 41 D. 29
17	The average height of five men is 68 inches. If one man is 70 inches tall and three other have an average of 67 inches, the height of the fifth man, in inches, is:	A. 68 B. 69 C. 70 D. 71
18	If p is a negative integer and $p^2+11p=t$ , a value of t could be:	A. 12 B. 18 C. -18 D. 11
19	A man has Rs.2000 and spends 18% of it. What money has he left now?	A. 3600 B. 820 C. 1640 D. 4000
20	If $(p-3)(p+5) > (p-3)(p+8)$ , what is the best description of p ?	A. $p = 3$ B. $-8 < p < -5$ C. $p = \{ \text{ \&nbsp; \&nbsp; \&nbsp; \&nbsp; \&nbsp; \}$ D. $p < 3$