

## Quantitative Reasoning Algebra Test For Nat

Sr	Questions	Answers Choice
1	$Ay-b=c$ , dy what is 'y' in terms of 'a', 'b' and 'c'?	A. $(c+b) / (a+d)$ B. $(c-b) / (a+d)$ C. $(c-b) / (a+d)$ D. $(c+b) / (a-d)$
2	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. $p < 3$
3	t is an integer greater than 5. The expression that must represent an odd integer is	A. $t(t+1)$ B. $3t-1$ C. $t^{2+2}$ D. $2t-3$
4	If $2x + y + b = 11$ and $3x + 2y = 17$ then y is?	A. 1 B. 5 C. 6 D. 4
5	$2x^2y$ when multiplied with $x^2 + y^2$ gives ?	A. $2x^{2+2}y^{3+3} + 2xy^{3+3}$ B. $2x^{4+4}y^{3+3}$ C. $2xy^{2+2} + 2x^{2+2}y$ D. $2xy^{3+3} + 2x^{3+3}y$
6	The average height of five men is 68 inches. If one man is 70 inches tall and three others have an average of 67 inches, the height of the fifth man, in inches, is	A. 68 B. 69 C. 70 D. 71
7	Which of the following is the sum of two consecutive prime numbers?	A. 66 B. 52 C. 41 D. 29
8	Find the ratio of 18 inches to 2 yards.	A. $3/4$ B. $1/4$ C. $1/5$ D. $2/5$
9	Four people are asked to stand in a straight line. In how many different orders can they line up?	A. 12 B. 16 C. 24 D. 6
10	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
11	If it takes 10 minutes to walk $3/4$ mile, how many minutes will it take to walk the rest of the mile?	A. $2 \frac{1}{3}$ B. $13 \frac{1}{3}$ C. $4 \frac{2}{7}$ D. 30
12	If Myra had bowling scores of $b + 6$ , $b - 2$ , $b + 4$ , and $b - 5$ , what must she score in the next game to get an overall average of $b + 2$ ?	A. $b + 7$ B. $b - 3$ C. $b + 3$ D. $b - 7$
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	If $(x + 1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90

15	The average height of a class of 14 days is 5.3 feet. After new boy is admitted to the class ,the new average height now becomes 5.25. What is the height of the new boy?	A. 4.55 B. 5.0 C. 6.0 D. 3.5
16	How many integers from 28 to 98, both exclusive are exactly divisible by 7?	A. 9 B. 11 C. 12 D. 8
17	If $abc = 2$ and $a = c$ then $b =$	A. $a^{2\sqrt{2}}$ B. $1/2a$ C. $2/a^{2\sqrt{2}}$ D. $2-a^{2\sqrt{2}}$
18	Find the arithmetic mean of 25.2, 13.5, 18.5 and 34.8	A. 13 B. 23 C. 27 D. 5
19	A candy recipe calls for 5 parts milk, 4 parts cocoa, 4 parts syrup, 2 parts sugar, and 1 part butter. If you use 8 ounces of milk, how many ounces of candy mixture can you make?	A. $25\frac{3}{5}$ B. $5\frac{3}{5}$ C. 20 D. 128
20	A man opens a bookstall with a capital of Rs.25000. In three months his capital amounts to rupees 27500. What is the increase percent?	A. 1% B. 10% C. 20% D. 7%