

Quantitative Reasoning Algebra Test For Nat

Sr	Questions	Answers Choice
1	How many miles are there between two cities if the distance is represented by a 2.4 inch line on a map having a scale of 1 inch to 8 miles?	A. 19.0 B. 12.8 C. 8.5 D. 38
2	A man spent 10% of his money .After spending 60% of the remainder he has Rs.72 left. How much had he in the start?	A. 10 B. 100 C. 200 D. 400
3	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
4	If $(p-3)(p+5) > (p-3)(p+8)$, what is the best description of p ?	A. $p = 3$ B. $-8 < p < -5$ C. $p = \{ \dots \}$ D. $p < 3$
5	Dave is twice as old as Bob, who is 3 years older than steve. If Steve is 4a years old, Dave's age is:	A. 8a B. 22a C. 14a D. 8a+6
6	If $abc = 2$ and $a = c$ then $b =$	A. $a^{²}$ B. $1/2a$ C. $2/a^{²}$ D. $2-a^{²}$
7	If $2x + y + b = 11$ nad $3x + 2y = 17$ then y is?	A. 1 B. 5 C. 6 D. 4
8	Which of the following is the sum of two consecutive prime numbers?	A. 66 B. 52 C. 41 D. 29
9	A word processing operator typed 44 words per minute. After practice, the operator's speed increased to 55 words per minutes. By what percent did the operator's speed increase?	A. 25% B. 50% C. 15% D. 20%
10	If $(x+1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$?	A. 94 B. 98 C. 100 D. 90
11	t is an integer greater than 5. The expression that must represent an odd integer is	A. $t(t+1)$ B. $3t-1$ C. $t^{²}$ D. $2t-3$
12	In Myra had bowling scores of $b+6$, $b-2$, $b+4$, and $b-5$. what must she score in the next game to get overall average of $b+2$?	A. $b+7$ B. $b-3$ C. $b+3$ D. $b-7$
13	The value of $x^2 + 5x + 6$ at $x=2$ is:	A. 10 B. 14 C. 18 D. 20
14	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 3/5 B. 5 3/5 C. 20 D. 128
15	The value of $(x+y)^2 - (x-y)^2$ is?	A. 4 B. $x^{²} + y^{²}$ C. $4xy$ D. $-4xy$

16 t is an integer than 5. The expression that must represent an odd integer is:
A. $1(t+1)$
B. $9t-1$
C. t^2
D. $2t-3$

17 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

18 If $3 \frac{1}{5} = 2 \frac{1}{2} b$ and $c \neq 0$, then $b/c = ?$
A. $\frac{25}{32}$
B. $\frac{7}{8}$
C. $\frac{32}{25}$
D. $\frac{11}{10}$

19 Dave is twice as old as Bob, who is 3 years older than Steve. If Steve is $4a$ years old, Dave's age is
A. $8a$
B. $22a$
C. $14a$
D. $8a + 6$

20 The population of 8 villages is 900, 750, 1100, 1050, 835, 1250, 555, and 630. Find the population of Ninth village if the average population of Nine villages is 900.
A. 1200
B. 1050
C. 1030
D. 7070
