

## Quantitative Reasoning Algebra Test For Nat

Sr	Questions	Answers Choice
1	In a school there are 400 students , of whom 70% are boys. What is the number of girls?	A. 130 B. 200 C. 280 D. 2800
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	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 $abc = 2$ and $a = c$ then $b =$	A. $a^{<sup>2</sup>}$ B. $1/2a$ C. $2/a^{<sup>2</sup>}$ D. $2-a^{<sup>2</sup>}$
5	How many integers between 28 and 98 are exactly divisible by 7 ?	A. 9 B. 11 C. 12 D. 8
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	If $(p-3)(p+4) > (p-3)(p+8)$ , what is the best description of $p$ ?	A. $p=3$ B. $-8 < p < -5$ C. $p = \{ \}$ D. $p < 3$
8	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
9	If $x=7y+3$ and $z=49y^2$ then what is 'z' in terms of x?	A. $X^2$ B. $x^{<sup>2</sup>-3}$ C. $(x-3)^{<sup>2</sup>}/7$ D. None
10	A and B can do a jobs in 6 days. If A does the job alone he takes 10 days.What will be time required by B to complete the job alone?	A. 8 B. 6 C. 15 D. 3
11	If 'x' and 'y' are positive and $1/x=3+1/y$ is 'x' greater than 'y'?	A. Yes B. No C. It cannot be determined D. They are equal
12	If $(36)(?)(7)=21$ , then ? equals	A. $21/43$ B. $1/42$ C. $1/12$ D. $1/11$
13	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
14	Mr.Kashif got an average of 50 in 6 tests. What should he get in the next test to attain the average of 60?	A. 120 B. 60 C. 100 D. 70
15	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%

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16	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
17	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
18	The average height of a class of 14 boys is 5.3 feet. After a 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
19	If $x + 2y = 11$ and $x + y = 10$ the value of $y$ is:	A. 1 B. 2 C. 3 D. 4
20	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. $8a + 6$

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