# Quantitative Reasoning Algebra Test For Nat

| Sr | Questions | Answers Choice |
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| 1 | 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<br>B. 400<br>C. 2000<br>D. 1000 |
| 2 | x + y =17 and x=2, then value of y? | A. 13<br>B. 15<br>C. 19<br>D. 10 |
| 3 | What is the number , 5% of which is 10? | A. 200<br>B. 100<br>C. 50<br>D. 10 |
| 4 | The value of $(x+y)^2 - (x-y)^2$ is? | A. 4<br>B. $x^2+y^2$<br>C. 4xy<br>D. -4xy |
| 5 | $(x+y)^2=25$ and $x^2+y^2=13$ then xy is equal to? | A. 16<br>B. 20<br>C. 18<br>D. 6 |
| 6 | 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<br>B. 9000<br>C. 300<br>D. 900 |
| 7 | If 4x-y=13 and 3x-2y=7 then what is the average of 'x' and 'y'? | A. 4<br>B. 3<br>C. 2<br>D. 6 |
| 8 | A car that gets 15 miles per gallon of gasoline can travel 250 miles on a full tank. If the same car got 20 miles per gallon, how many miles could it travel on a full tank? | A. 300<br>B. 750<br>C. 250 3/5<br>D. 333 1/3 |
| 9 | 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%<br>B. 10%<br>C. 20%<br>D. 7% |
| 10 | The value of $(x+y)^2 + (x-y)^2$ is? | A. 4<br>B. $2(x^2+y^2)$<br>C. 4xy<br>D. -4xy |
| 11 | If a train travels 5/6 miles in 1 1/4 minutes, how many miles will it travel in 1 hour? | A. 20 miles<br>B. 50 miles<br>C. 40 miles<br>D. 30 miles |
| 12 | Ay-b=c-dy what is 'y' in terms of 'a', 'b' and 'c'? | A. 30<br>B. 38/2<br>C. 38/3<br>D. 38/5 |
| 13 | If 7 apples cost y cents, how many apples will x dollars buy ? | A. x / 7y<br>B. 7x / y<br>C. 7x / 100y<br>D. 700x / y |
| 14 | How many integers between 28 and 98 are exactly divisible by 7 ? | A. 9<br>B. 11<br>C. 12<br>D. 8 |
| 15 | t is an integer than 5. The expression that must represent an odd integer is: | A. 1(t+1)<br>B. 9t-1<br>C. $t^2$<br>D. 2t-3 |

| 16 | Which of the following is the sum of two consecutive prime numbers ? | A. 66<br>B. 52<br>C. 41<br>D. 29 |
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| 17 | If p is a negative integer and $p^2+11p=t$, a value of t could be: | A. 12<br>B. 18<br>C. -18<br>D. 11 |
| 18 | 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 the of 8. Find their average age. | A. 7.85<br>B. 8.75<br>C. 12.2<br>D. 14.35 |
| 19 | 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<br>B. 5.0<br>C. 6.0<br>D. 3.5 |
| 20 | 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<br>B. 60<br>C. 100<br>D. 70 |