

Quantitative Reasoning Algebra Test For Nat

| Sr | Questions | Answers Choice |
|----|--|--|
| 1 | 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% |
| 2 | If $(x+1/x)^2=96$ what is the value of $x^2 + 1/x^2$? | A. 94 B. 98 C. 100 D. 90 |
| 3 | 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. $b-7$ |
| 4 | If apples cost 3 for 37 cents, find the cost of $1 \frac{3}{4}$ dozen apples. | A. 111 cents B. 159 cents C. 259 cents D. 211 cents |
| 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 $x + 2y = 11$ and $x + y = 10$ the value of y is: | A. 1 B. 2 C. 3 D. 4 |
| 7 | 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 |
| 8 | 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% |
| 9 | If $(36)(?)(7)=21$, then ? equals | A. $21/43$ B. $1/42$ C. $1/12$ D. $1/11$ |
| 10 | 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 |
| 11 | 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. $b - 7$ |
| 12 | 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 |
| 13 | If $a^2 - b^2 = 36$ and $a-b = 12$ then average of 'a' and 'b' is? | A. 3 B. 12 C. 6 D. $3/2$ |
| 14 | 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 |
| 15 | If a train travels $5/6$ 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 |

| | | |
|----|--|---|
| 16 | 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 |
| 17 | $1/x=1/y+1/z$ then 'x' in terms of 'y' and 'z' is given by? | A. $(y+z) / (y-z)$ B. $yz / (y+z)$ C. $(y+z)/ yz$ D. $1/z-1/y$ |
| 18 | If $abc= 2$ and $a = c$ then $b =$ | A. a^{2c} B. $1/2a$ C. $2/a^2$ D. $2-a^2$ |
| 19 | If $(36)(?)(7)=21$, then ? equals | A. $21/43$ B. $1/42$ C. $1/12$ D. $1/11$ |
| 20 | A man bought 27 packets of Chilli Milli at \$280 each, 9 packets of Chilli Milli at \$320 each and 6 packets of Chilli Milli at \$360 each. Find the average price per packet of Chilli Milli. | A. \$250 B. \$300 C. \$400 D. \$380 |