

NAT I Arts Quantitative

Sr	Questions	Answers Choice
1	If it takes 10 minutes to walk $\frac{3}{4}$ 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
2	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
3	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 B. 750 C. 250 $\frac{3}{5}$ D. 333 $\frac{1}{3}$
4	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
5	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
6	How many cents will r books cost if t books cost m dollars?	A. $\frac{100mr}{t}$ B. $\frac{mr}{100}$ C. $\frac{100t}{mr}$ D. $\frac{m}{100t}$
7	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
8	Find the value of x if $3:b=x:c$.	A. $\frac{3b}{c}$ B. $\frac{c}{3b}$ C. $\frac{2c}{3b}$ D. $\frac{3c}{b}$
9	If a train travels $\frac{5}{6}$ 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
10	Find the ratio of 18 inches to 2 yards.	A. $\frac{3}{4}$ B. $\frac{1}{4}$ C. $\frac{1}{5}$ D. $\frac{2}{5}$
11	If ' x ' and ' y ' are positive and $\frac{1}{x} = 3 + \frac{1}{y}$ is ' x ' greater than ' y '?	A. Yes B. No C. It cannot be determined D. They are equal
12	If $4x - y = 13$ and $3x - 2y = 7$ then what is the average of ' x ' and ' y '?	A. 4 B. 3 C. 2 D. 6
13	If $x = 7y + 3$ and $z = 49y^2$ then what is ' z ' in terms of x ?	A. x^2 B. $x^{\sup{2}}$ C. $(x-3)^{\sup{2}}$ D. None
14	$Ay - b = c$, dy what is ' y ' in terms of ' a ', ' b ' and ' c '?	A. $\frac{(c+b)}{(a+d)}$ B. $\frac{(c-b)}{(a+d)}$ C. $\frac{(c-b)}{(a+d)}$ D. $\frac{(c+b)}{(a-d)}$
15	$Ay - b = c$ -dy what is ' y ' in terms of ' a ', ' b ' and ' c '?	A. 30 B. $\frac{38}{2}$ C. $\frac{38}{3}$ D. $\frac{38}{5}$

16	If $3x+5y=10$ and $3y+5x=30$ then average of 'x' and 'y' is?	A. $\frac{3}{2}$ B. 4 C. $\frac{5}{2}$ D. $\frac{7}{2}$
17	$\frac{1}{x} = \frac{1}{y} + \frac{1}{z}$ then 'x' in terms of 'y' and 'z' is given by?	A. $\frac{(y+z)}{(y-z)}$ B. $\frac{yz}{(y+z)}$ C. $\frac{(y+z)}{yz}$ D. $\frac{1}{z} - \frac{1}{y}$
18	The value of $(x+y)^2 - (x-y)^2$ is?	A. 4 B. $x^2 + y^2$ C. $4xy$ D. $-4xy$
19	The value of $(x+y)^2 + (x-y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
20	When $3x^2+5x+7$ is subtracted from x^2+8x+3 the result is?	A. $5x^2 - 3x + 4$ B. $3x^2 - 2x - 4$ C. $x^2 + 8x + 10$ D. $11x^2 + 3x + 10$