

NAT II Physical Science Quantitative

Sr	Questions	Answers Choice
1	The average (arithmetic mean) of $8a + 5$, $-3a$, 9, 0 and $7a - 2$?	A. $3a + 1$ B. $3a + 3$ C. $4a + 1$ D. $4a + 4$ E. $12a + 12$
2	If $p = 2$, then $3^p + (p^3)^2 =$	A. 18 B. 45 C. 42 D. 70 E. 73
3	$\sqrt[x]{0.09} = 3$; $x = ?$	A. 10 B. $1/3$ C. $1/10$ D. 1
4	One half of the employs of Al Karim Co. earn salaries above Rs.18,000 monthly. One third of the remainder earn salaries between Rs.15,000 and Rs.18,000. What part of the staff earns below Rs.15,000?	A. $2/3$ B. $1/3$ C. $2/5$ D. $3/5$
5	If $3x + 5y = 10$ and $3y + 5x = 30$ then average if 'x' and 'y' is?	A. $3/2$ B. 4 C. $5/2$ D. $7/2$
6	If $2x + y = 11$ and $3x + 2y = 17$ then y is?	A. 1 B. 5 C. 6 D. 4
7	$816 - 288 \div = 24 ?$	A. 22 B. 828 C. 528 D. 804
8	The circumference of a circle whose diameter is 6 inches is approximately	A. 22 inches B. 19 inches C. 14 inches D. 38 inches E. 16 inches
9	A and B can do in 6 days. If A does the job alone he takes 10 days. What will be the time required by B to complete the job alone?	A. 8 B. 6 C. 15 D. 3
10	$2/3 \times 12 =$	A. 4 B. 6 C. 8 D. 10 E. 18
11	$(60)^2 = ? \times 7$	A. 3600 B. 3528 C. 0.02 D. 50
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	$(242 - 17)^2 - (7 - 5)^2 = ?$	A. 49000 B. 49200 C. 94200 D. 49400
14	A number which is divisible by both 6 and 8 is also divisible by	A. 7 B. 5 C. 11 D. 9 E. 24

15 If the area of rectangle is 12, then its perimeter is

A. 6
B. 7
C. 8
D. 12
E. Cannot be determined from the given information

16 What is the number, 5% of which is 10?

A. 200
B. 100
C. 50
D. 10

17 A factory employs M men and W women. What part of its employees are women?

A. $W/(W + M)$
B. W/M
C. $(W + M)/M$
D. M/W

18 $350 - 96 \div 18 = ?$

A. 318
B. -132
C. 328
D. 232

19 $2244 \div 0.88 = ? \times 1122$

A. 20.02
B. 20.2
C. 19.3
D. 2.27

20 The average height of a class of 14 boys 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
B. 5.0
C. 6.0
D. 3.5
