

## NAT II Management Science Quantitative

Sr	Questions	Answers Choice
1	$1/2$ of $44 \div 2.2 = ?$	A. 20 B. 22 C. 44 D. 100
2	The value of $(x + y)^2 + (x - y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
3	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. $12a + 12$
4	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
5	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. $M/W$
6	If $x + 2y = 11$ and $x + y = 10$ the value of $y$ is?	A. 1 B. 2 C. 3 D. 4
7	$2/3 \times 12 =$	A. 4 B. 6 C. 8 D. 10 E. 18
8	If $(x + 1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90
9	A team played 30 games of which it won. What part of the games played did it lose?	A. $1/5$ B. $5/6$ C. $6/5$ D. 5
10	12% of $x = 360$	A. 250 B. 100 C. 400 D. 3000
11	A motion was passed by a vote of 5: 3. What part of the votes cast was in favor of the motion?	A. $3/5$ B. $5/8$ C. $3/8$ D. $5/3$
12	The value of $(x + y)^2 - (x - y)^2$ is?	A. 4 B. $(x^2 + y^2)$ C. $4xy$ D. $-4xy$
13	A piece of fabric is cut into three sections so that the first is three times as long as the second and the second is three times as long as the third. What part of the entire piece is the smallest section?	A. $2/5$ B. $3/7$ C. $2/3$ D. $1/13$
14	$(60)^2 = ? \times 72$	A. 36 B. 3600 C. 40 D. 50

15	David receives his allowance on Sunday. He spends $\frac{1}{4}$ of his allowance on Monday and $\frac{2}{3}$ of the remainder on Tuesday. What part of his allowance is left for the rest of the week?	A. $\frac{2}{3}$ B. $\frac{4}{5}$ C. $\frac{6}{7}$ D. $\frac{1}{4}$
16	A clerk filed 73 forms on Monday, 85 forms on Tuesday, 54 on Wednesday, 92 on Thursday and 66 on Friday. What was the average number of forms filed per day?	A. 50 B. 95 C. 84 D. 74
17	If $3a - 5 = 3 + 2a$ , then $a =$	A. 8 B. 9 C. 10 D. 12 E. 6
18	When $3x^2 + 5x + 7$ is subtracted from $x^2 + 8x + 3$ the result is?	A. $5x^2 - 3x + 4$ B. $3x - 2x^2 - 4$ C. $x^2 + 8x + 10$ D. $11x^2 - 3x + 10$
19	$(190)^2 - (150)^2 = ?$	A. 58600 B. 13600 C. 1360 D. 1600
20	If 10 tractors are needed to plow a field in 4 hours, how many tractors are needed below to plow the field in 5 hours?	A. 32 B. 4 C. 16 D. 8