

## NAT II Physical Science Quantitative

Sr	Questions	Answers Choice
1	$1250 \div 25 \times 0.5 = ?$	A. 25 B. 50 C. 2.5 D. 100
2	$1.02 - 0.02 + ? = 1.842$	A. 0.222 B. 0.842 C. 2 D. None
3	$x\sqrt{0.09} = 3; x = ?$	A. 10 B. 1/3 C. 1/10 D. 1
4	What is the number, 5% of which is 10?	A. 200 B. 100 C. 50 D. 10
5	$x + y = 17$ and $x = 2$ then value of $y$ ?	A. 13 B. 15 C. 19 D. 10
6	The value of $(x + y)^2 + (x - y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
7	One half of the employs of Al Karim Co. earn salaries sabove Rs.18,000 monthly. One third of the reminder 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
8	David receives his allowance on Sunday. He spends 1/4 of his allowance on Monday and 2/3 of the remainder on Tuesday. What part of his allowance is left for the rest of the week?	A. 2/3 B. 4/5 C. 6/7 D. 1/4
9	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. $M/W$
10	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 age of 8. Find their average age.	A. 7.85 B. 8.75 C. 12.2 D. 14.35
11	$Ay - b = c - dy$ what is 'y' in term of 'a', 'b' and 'c'?	A. $(c + b)/(a + d)$ B. $(c - b)/(a + d)$ C. $(c - b)/(a - d)$ D. $(c + b)/(a - d)$
12	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
13	If a man's weekly salary is \$X and saves \$Y. What part of his weekly salry does he spend?	A. X/Y B. $X - Y/X$ C. $Y - X/X$ D. $x - y$
14	If $p = 2$ , then $3p + (p^3)^2 =$	A. 18 B. 45 C. 42 D. 70 E. 73
15	The area of the circle is $16\pi$ . The length of the diameter of the circle is	A. 2 B. 32 C. 4 D. 16

		D. 16 E. 8
16	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
17	$9218 - 3546 + 2354 = ?$	A. 8026 B. 8116 C. 10410 D. 23174
18	$350 - 96 \div 18 = ?$	A. 318 B. -132 C. 328 D. 232
19	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
20	A number which is divisible by both 6 and 8 is also divisible by	A. 7 B. 5 C. 11 D. 9 E. 24
21	12 is $\frac{3}{4}$ of what number?	A. 20 B. 24 C. 16 D. 8
22	The average height of a class of 14 boys is 5.3 feet. After a 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
23	Mr. Kashif got an average of 50 in 6 tests. What should he get in the next to attain the average of 60?	A. 120 B. 60 C. 100 D. 70
24	A team played 30 games of which it won. What part of the games played did it lose?	A. $\frac{1}{5}$ B. $\frac{5}{6}$ C. $\frac{6}{5}$ D. 5
25	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. $\frac{7}{2}$
26	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. $12a + 12$
27	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
28	In a school there are 400 students, of whom 70% are boys. What is the number of girls?	A. 120 B. 200 C. 280 D. 2800
29	$\frac{1}{x} = \frac{1}{y} + \frac{1}{z}$ 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. $\frac{1}{z} - \frac{1}{y}$
30	$(60)^2 = ? \times 72$	A. 36 B. 3600 C. 40 D. 50
31	$0.027 \div 90 = ?$	A. 0.0003 B. 0.03 C. 3 D. 0.00003
32	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

	and 6 packets of 5mm mm at \$600 each. Find the average price per packet of 5mm mm.	A. \$ 100 B. \$380 C. \$ 150 D. \$380
33	David receives his allowance in Sunday. He spends 1/4 of his allowance on Monday and 2/3 of the remainder on Tuesday. What part of his allowance is left for the rest week?	A. 2/3 B. 4/5 C. 6/7 D. 1/4
34	$? \times 12 = 75\% \text{ of } 336$	A. 48 B. 252 C. 28 D. 21
35	What part of an hour elapses between 10: 45 a.m and 11:09 a.m?	A. 2/5 B. 3/5 C. 11/12 D. 2
36	$\sqrt{256} \div \sqrt{64} = ?$	A. 1/4 B. 26/8 C. 16 D. 4
37	Maria's test scores were 96, 97, 86, 98 and 92. What would he need on his next test to have an average of 94?	A. 92 B. 90 C. 95 D. 100 E. 98
38	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
39	What is the percent profit made on the sale of 1000 shares of stock bought at Rs. 10 per share and sold at Rs. 12 per share?	A. 2% B. 0.2% C. 25% D. 20% E. 41%
40	$x^2 = 1681$ , $x = ?$	A. 31 B. 41 C. 51 D. 61
41	$1/2 \text{ of } 44 \div 2.2 = ?$	A. 20 B. 22 C. 44 D. 100
42	The average of $x$ , $y$ , $z$ and 40 is 10. What is the average of $x$ , $y$ and $z$ .	A. 10 B. 0 C. 2 D. 15
43	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
44	$2x^2y$ when multiplied with $x^2 + y^2$ gives?	A. $2x^3y^3 + 2xy^3$ B. $2x^4y + 2x^2y^3$ C. $2xy^2 + 2x^2y$ D. $2xy^3 + 2x^3y$
45	The value of $(x + y)^2 - (x - y)^2$ is?	A. 4 B. $(x^2 + y^2)$ C. $4xy$ D. $-4xy$
46	If the radius of the circle is halved, then its area	A. Remains same B. Become half C. Become quarter D. Become double E. Not changed
47	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
48	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
		A. 90 B. 100

49	If a pipe can fill a tank in 2 hours and another pipe can fill the same tank in 40 minutes. How much time in minutes is needed to fill the tank if both the pipes are working together?	B. 50 C. 60 D. 30
50	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% B. 10% C. 20% D. 7%
51	The value of $\{0.54 - 0.44\} / \{0.52 - 0.42\}$ is?	A. 0.9 B. 0.09 C. 0.19 D. 0.31
52	If $3(p + 5q) = 24$ , then what is the value of q, when $p = 3$ ?	A. 1 B. 5 C. 9 D. 3 E. 7
53	If $3a - 5 = 3 + 2a$ , then $a =$	A. 8 B. 9 C. 10 D. 12 E. 6
54	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%
55	$3/4$ of 432 = ?	A. 340 B. 232 C. 324 D. 316
56	If $3p + 2 = 12$ , then $p - 1/3$ equals:	A. 10 B. 3 C. $10/3$ D. 4 E. 12
57	$(190)^2 - (150)^2 = ?$	A. 58600 B. 13600 C. 1360 D. 1600
58	What part of an hour elapses between 10:45 a.m. and 11:09 a.m.?	A. $2/5$ B. $3/5$ C. $11/12$ D. 2
59	Find the sum of money, 11% of which is Rs. 1650.	A. 150 B. 3300 C. 25000 D. 15000
60	12% of $x = 360$	A. 250 B. 100 C. 400 D. 3000
61	The ratio from 5 feet to 3 inches is	A. $3/5$ B. $5/3$ C. $3/60$ D. $1/20$ E. 20
62	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%
63	A team played 30 games of which it won. What part of the games played did it loss?	A. $1/5$ B. $5/6$ C. $6/5$ D. 5
64	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 B. 400 C. 2000 D. 1000
65	The value of $x^2 + 5x + 6$ at $x = 2$ is?	A. 10 B. 14 C. 18 D. 20

66	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?	<div> <div></div> <div> A. 12.8  B. 8.5  C. 38  D. 38 </div> </div>
67	Question Image	<div> <div></div> <div> A. 1.425  B. 1.585  C. 1.330  D. 0.750  E. 1.750 </div> </div>
68	What is the sum of money, 6% of which is 18 dollars?	<div> <div></div> <div> A. 600  B. 200  C. 300  D. 10 </div> </div>
69	$25\% \text{ of } 4 \div 4\% \text{ of } 25 = ?$	<div> <div></div> <div> A. 1  B. 3  C. 0  D. 67 </div> </div>
70	The population of 8 villages is 900, 750, 1100, 1050, 1250, 555, and 630. Find the population of Ninth village if the average population of Nine villages is 900.	<div> <div></div> <div> A. 1200  B. 1050  C. 1030  D. 7070 </div> </div>
71	$(x + y)^2 = 25$ and $x^2 + y^2 = 13$ then $xy$ is equal to?	<div> <div></div> <div> A. 16  B. 20  C. 18  D. 6 </div> </div>
72	$\frac{2}{3} \times 12 =$	<div> <div></div> <div> A. 4  B. 6  C. 8  D. 10  E. 18 </div> </div>
73	If $2x + y = 11$ and $3x + 2y = 17$ then $y$ is?	<div> <div></div> <div> A. 1  B. 5  C. 6  D. 4 </div> </div>
74	If $x\% \text{ of } 60 = 48$ , then $x = ?$	<div> <div></div> <div> A. 80  B. 60  C. 90  D. 40 </div> </div>
75	$Ay - b = c - dy$ what is 'y' in terms of 'a', 'b' and 'c'?	<div> <div></div> <div> A. 30  B. <math>\frac{38}{2}</math>  C. <math>\frac{38}{3}</math>  D. <math>\frac{38}{5}</math> </div> </div>
76	If $x = 7y + 3$ and $z = 49y^2$ then what is 'z' in terms of x?	<div> <div></div> <div> A. <math>x^2</math>  B. <math>x^2 - 3</math>  C. <math>(x - 3)^2/7</math>  D. None </div> </div>
77	When $3x^2 + 5x + 7$ is subtracted from $x^2 + 8x + 3$ the result is?	<div> <div></div> <div> A. <math>5x^2 - 3x + 4</math>  B. <math>3x - 2x^2 - 4</math>  C. <math>x^2 + 8x + 10</math>  D. <math>11x^2 - 3x + 10</math> </div> </div>
78	15% of 32 equal	<div> <div></div> <div> A. 3.80  B. 2.50  C. 4.80  D. 4  E. 5 </div> </div>
79	$816 - 288 \div = 24 ?$	<div> <div></div> <div> A. 22  B. 828  C. 528  D. 804 </div> </div>
80	If Adil can finish a job in 5 hours and Moeed can finish the same job in 10 hours, how many minutes will it take both of them together to finish the job?	<div> <div></div> <div> A. 210  B. 220  C. 200  D. 160  E. 180 </div> </div>
81	Which of the following is closest to the square root of $1/2$ ?	<div> <div></div> <div> A. 0.7  B. 0.6  C. 0.8  D. 0.25  E. 0.5 </div> </div>
82	$2.08 - (0.5)^2 = ?$	<div> <div></div> <div> A. -1.20  B. 1.88  C. 1.83  D. 2.16 </div> </div>

83	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
84	If $(x + 1/x)^2 = 96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90
85	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
86	Find the arithmetic mean of 25.2, 13.5, 18.5, and 34.8	A. 13 B. 23 C. 27 D. 5
87	$(242 - 17)^2 - (7 - 5)^2 = ?$	A. 49000 B. 49200 C. 94200 D. 49400
88	One half of the employees 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 below Rs. 15,000?	A. 2/3 B. 1/3 C. 2/5 D. 3/5
89	$.007 \div \sqrt{.000049}$	A. 1 B. .0049 C. 2 D. 7
90	If the ratio of $x : y$ is $9 : 7$ , then $x + y$ is	A. 16 B. 2 C. 1 D. None of the above
91	If $a^2 - b^2$ and $a - b = 12$ then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. 3/2
92	$(60)^2 = ? \times 7$	A. 3600 B. 3528 C. 0.02 D. 50
93	$72 + 679 + 1439 + 537 + ? = 4036$	A. 1309 B. 1208 C. 2308 D. 2423
94	Successive discounts of 10% and 15% is equivalent to a single discount of	A. 24% B. 24.5% C. 23.5% D. 22% E. 25%
95	What is 1/5% of 5000	A. 10 B. 12 C. 16 D. 1000 E. 5000
96	$2244 \div 0.88 = ? \times 1122$	A. 20.02 B. 20.2 C. 19.3 D. 2.27
97	A man has Rs. 2000 and spends 18% of it. What money has he left now?	A. 3600 B. 820 C. 1640 D. 4000
98	If $x + 3y = 7$ and $2x + y = 5$ then $x/y$ is?	A. 1/2 B. 1/3 C. 2/5 D. 8/9
99	If $x + 2y = 11$ and $x + y = 10$ the value of $y$ is?	A. 1 B. 2 C. 3 D. 4