

GAT-B Arts, Humanities & Social Science Quantitative

Sr	Questions	Answers Choice
1	If $x < 0$, then $-3x^2$ is:	<p>A. less than $(-3x^2)$</p> <p>B. greater than $(-3x^2)$</p> <p>C. equal to $(-3x^2)$</p> <p>D. greater than or equal to $(-3x^2)$</p>
2	If $p^2 - q^2 = 48$ and $p - q = 12$, what is the average of p and q ?	<p>A. 4</p> <p>B. 6</p> <p>C. 2</p> <p>D. 12</p>
3	If $1/x + 1/y = 1/z$ and $xy = z$, what is the average of x and y ?	<p>A. $1/2$</p> <p>B. 1</p> <p>C. $\frac{x+y+z}{3}$</p> <p>D. $\frac{x+y+z}{2}$</p>
4	The value of $(5x + 6)(x + 12) - (5x - 6)(x + 3)$ is:	<p>A. $2(5x^2 + 9x)$</p> <p>B. 14</p> <p>C. 4</p> <p>D. 22</p>
5	If $x^2 + y^2 = 9$ and $(x - y)^2 = 3$, what is the value of xy ?	<p>A. 16</p> <p>B. 9</p> <p>C. 6</p> <p>D. 3</p>
6	What is the value of $x^2 + 14x + 24$, when $x=854$?	<p>A. 1000</p> <p>B. 100,000</p> <p>C. 741,296</p> <p>D. 742,398</p>
7	The average of the polynomials, $2x^2 + 5x - 6$, $5x^2 - 5x - 6$ and $30 - 7x^2$ is:	<p>A. 14</p> <p>B. 18</p> <p>C. 6</p> <p>D. $5x$</p>
8	If $x^2 - y^2 = 16$ and $x^2 + y^2 = 34$, which of the following could be the value of xy ? i. 15 ii. -15 iii. 45	<p>A. only 1</p> <p>B. only 2</p> <p>C. 1 and 2 only</p> <p>D. 3 only</p>
9	If $x = 235$ and $y = 117$, then $x^2 - y^2/x - y = ?$	<p>A. 118</p> <p>B. 100</p> <p>C. 115</p> <p>D. 352</p>
10	Which of the following is the average of $x^4 - 20$, $40 - x^4$, and $3x + 4$?	<p>A. $\frac{x^4 - 20 + 40 - x^4 + 3x + 4}{3} - 24$</p> <p>B. $\frac{x^4 - 20 + 40 - x^4 + 3x + 4}{3} + 8$</p> <p>C. $\frac{x^4 - 20 + 40 - x^4 + 3x + 4}{3} + 24$</p> <p>D. $\frac{x^4 - 20 + 40 - x^4 + 3x + 4}{3} + 24$</p>
11	If $20x + 20y = 70$, what is the average of x and y ?	<p>A. $7/2$</p> <p>B. 7</p> <p>C. $7/4$</p> <p>D. $4/7$</p>
12	What is the average of 3^{10} , 3^{20} and 3^{30} ?	<p>A. 3^{59}</p> <p>B. $3^9 + 3^{19} + 3^{29}$</p> <p>C. 3^{57}</p> <p>D. $3^{11} + 3^{21} + 3^{31}$</p>
13	If the average of 3, 5, 10 and S is 6, what is the value of S ?	<p>A. 4</p> <p>B. 6</p> <p>C. 12</p> <p>D. 0</p>
14	If $a + b = 8$, $b + c = 9$, and $c + a = 11$, what is the average of a , b and c ?	<p>A. $14/3$</p> <p>B. $28/3$</p> <p>C. $44/3$</p>

C. 14/0
D. 7/3

15	Asim had an average of 60 on his first four math tests. After taking the next test, his average dropped to 58. Find his recent test grade.	A. 40 B. 50 C. 48 D. 32
16	A worker is paid R rupees per hours for the first 8 hours daily. For every hour after the first 8 hours, she is paid S rupees per hour. If she works 12 hours in one day, what is her average hourly for the day ?	A. $8R + S$ B. $8R + 4S/4$ C. $12R - 8S/4$ D. $2R + S/3$
17	If the mean (average) of 6 numbers is 4.5. What is the sum of the numbers ?	A. 0.75 B. 10.5 C. 12 D. 27
18	The average number of goals a team has scored in 7 matches is 8. They averaged 10 goals for the first 3 matches and they scored 5 goals in each of the next tow matches. What is the average score of the last two matches ?	A. 5 goals B. 4 goals C. 6 goals D. 8 goals
19	8 students in a class obtained 60%, 3 obtained 75%, 2 obtained 80% and 7 obtained 45% in a class test. What is the average marks ?	A. 49% B. 59% C. 29% D. 51%
20	Which of the following is the average of $x^2 - 16$, $39 - x^2$ and $3x + 10$?	A. $x + 3$ B. $2x + 13$ C. $x + 11$ D. $x + 11/3$