

## GAT-B Arts, Humanities & Social Science Quantitative

Sr	Questions	Answers Choice
1	The average of four consecutive even integers is T. The second of these integers can be represented in terms of T as:	A. T - 1 B. T + 1 C. T + 2 D. 4T - 8
2	Question Image	A. $81 + 81\sqrt{3}$ B. $18 + 18\sqrt{3}$ C. $12(1 + 2\sqrt{3})$ D. $12 + 12\sqrt{3}$
3	Four people are asked to stand in a straight line. In how many different orders can they line up?	A. 12 B. 16 C. 24 D. 6
4	What is the area of a circle whose radius is the diagonal of square whose area is 9?	A. $\sqrt{3}\pi$ B. $12\pi$ C. $4\pi$ D. $13\pi$
5	A triangle has sides, 5 inches, 12 inches and 13 inches, respectively, A rectangle equal in area to that of the triangle has width of 4 inches. The perimeter of the rectangle, expressed in inches, is:	A. 23 B. 28 C. 60 D. 32
6	If it takes 4 days for 3 machines to do a certain job, how many days are required to complete the job by two machines?	A. 6 days B. 2 days C. 5 days D. 3 days
7	Question Image	A. $2(2 + \sqrt{2})$ B. $4 + \sqrt{2}$ C. $2 + \sqrt{2}$ D. 4
8	Which of the following is equal to $(3^8 \times 3^9)^{10}$ ?	A. $3^{720}$ B. $3^{170}$ C. $3^{27}$ D. $3^{98}$
9	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
10	The length of a rectangle is twice its width. If the perimeter of a rectangle is the same as the perimeter of a square of size 9, what is the length of a diagonal of the rectangle ?	A. 180 B. $3\sqrt{5}$ C. 36 D. $6\sqrt{5}$
11	Jafer drew a square. He then erased it and drew a second square whose sides were 3 times the sides of the first square. By what percent was the area of the square increased ?	A. 300% B. 800% C. 400% D. 200%
12	If x is a positive number and $x^2 + 36 = 100$ , what is the value of x ?	A. 6 B. 8 C. 14 D. 64
13	Ahmed has a rectangular garden measuring 4.32m by 3.36m. He wants to divide it into square plots of equal size. What is largest sized square the can use?	A. 0.24 B. $\sqrt{3}$ C. 0.48m D. 0.16
14	Question Image	A. 16 sq.cm B. 15 sq.cm C. 60 sq.cm D. None of these
15	Question Image	A. 25.25 B. 36.5 C. 42.5 D. 35

16	3/8 of a number is 10. What is the number ?	A. 91 B. 81 C. 23 D. 27
17	The number p is 4 more than 3 times the number r. The sum of p and r is 10. Which of the following pairs of equations could be used to find the values of p and r?	A. $p = 3r + 4$ and $p + r = 10$ B. $p = 3r + 4$ and $pr = 10$ C. $p = 3(r + 4)$ and $p + r = 10$ D. $p + 4 = 3r$ and $p + r = 10$
18	Win/Loss ratio for two teams are A, 5 : 2 and B, 7 : 3 which team has the better record ?	A. A B. B C. both A and B D. wrong question
19	The least number which when divided by 35, leaves remainder of 25; when divided by 45 leaves a remainder of 35 and when divided by 55 leaves 45 as remainder, is:	A. 3455 B. 3465 C. 3475 D. 10
20	Direction: In the following type of question, each consists of two quantities, one in column A and one in column B. You must compare two quantities and on the answer sheet fill in.  A. If the quantity in column A is greater. B. If the quantity in column B is greater. C. If the two quantities are equal. D. If the relationship cannot be determined from the information given.	
	Notes: Sometimes, in certain question, information concerning one or both the quantities to be compared is centered above the two columns. A symbol that in both columns represents the same thing in column A as it does in column B.  <b>Column A</b> $\frac{4x}{3}$ <b>Column B</b> $Y$  $\frac{x}{y} = \frac{3}{4}$	A. A B. B C. C D. D