

## GAT-A Business and Engineering Quantitative

Sr	Questions	Answers Choice
1	In a squash tournament that has 75 entrants, a player is eliminated whenever he loses a match. How many matches will be played in the entire tournament ?	A. 74 B. 18 C. 34 D. 36
2	A bag contains 20 marbles: 6 green, 10 brown, and 4 white. If one marble is removed randomly, what is the minimum number that must be removed to be certain that you have at least 2 marbles of each colour	A. 16 B. 18 C. 10 D. 15
3	A bag has 7 marbles, one of each of colours, green, blue, brown, yellow, red, white and pink. If 6 marbles are removed from the bag, what is the probability that the red one was removed ?	A. 1/7 B. 4/3 C. 2/7 D. 6/7
<p>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.</p> <p>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.</p> <p>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.</p> <p><b>Column A</b> <math>9^2</math> <b>Column B</b> <math>3^4</math> <math>(8^{2a} = 4^{3b})</math></p>		
4		A. A B. B C. C D. D
5	There are 28 players in a college cricket team. What is the probability that at least 3 of them have their birthday in the same month ?	A. 0 B. 1/5 C. 1 D. 1/2
6	How many three-digit number have only even digits ?	A. 48 B. 58 C. 500 D. 300
7	Munir was born on August 14, 1934 and died on February 28, 1999. What was his age, in years, at the time of his death ?	A. 64 B. 65 C. 66 D. 68
8	Ayesha completed questions 4 - 18 of a mathematics exercise in 30 minutes. At this rate, how long, in minutes, will it take her to complete questions 27 - 55 ?	A. 59 B. 29 C. 30 D. 58
9	What is the perimeter of parallelogram ABCD ?	A. $14 + \sqrt{17}$ B. $16 + \sqrt{7}$ C. $2 + \sqrt{17}$ D. $2(7 + \sqrt{17})$
10	What is the area of the parallelogram ABCD ?	A. 24 B. 21 C. 29 D. 28
11	The slope of the line passing through $(-b, b)$ and $(3b, a)$ is 1 and $b \neq 0$ , which of the following is an expression for a in terms of b ?	A. $1/4b$ B. $3b$ C. $5b$ D. $2b$ E. $4b$

12	If a line passes through the points $(x, y)$ and $(1/x, y)$ , then its slope is	<p>B. 0</p> <p>C. <math>1 - \frac{1}{x^2}</math></p> <p>D. 1</p>
13	A circle whose center is at $(3, 4)$ passes through the origin. Which of the following points is not on the circle ?	<p>A. <math>(-1, 3)</math></p> <p>B. <math>(-1, 1)</math></p> <p>C. <math>(0, 0)</math></p> <p>D. <math>(7, 7)</math></p>
14	<p>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.</p> <p>A. If the quantity in column A is greater.</p> <p>B. If the quantity in column B is greater.</p> <p>C. If the two quantities are equal.</p> <p>D. If the relationship cannot be determined from the information given.</p> <p>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.</p> <p><b>Column A</b> The remainder when a positive integer is divided by 5.</p> <p><b>Column B</b> 5</p>	<p>A. A</p> <p>B. B</p> <p>C. C</p> <p>D. D</p>
15	If $A(3, 2)$ and $B(7, 2)$ are two vertices of a rectangle, which of the following could not be the another vertices of that rectangle ?	<p>A. <math>(3, 7)</math></p> <p>B. <math>(7, 3)</math></p> <p>C. <math>(3, -7)</math></p> <p>D. <math>(-3, 7)</math></p>
16	<p>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.</p> <p>A. If the quantity in column A is greater.</p> <p>B. If the quantity in column B is greater.</p> <p>C. If the two quantities are equal.</p> <p>D. If the relationship cannot be determined from the information given.</p> <p>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.</p> <p><b>Column A</b> <math>x + y</math></p> <p><b>Column B</b> <math>xy</math></p> <p>(<math>x</math> and <math>y</math> are nonzero integers)</p>	<p>A. A</p> <p>B. B</p> <p>C. C</p> <p>D. D</p>
17	If $A(-2, 3)$ and $B(5, -1)$ are the endpoints of one side of a square ABCD, what is the area of the square ?	<p>A. 20</p> <p>B. 65</p> <p>C. 30</p> <p>D. 35</p>
18	Question Image	<p>A. Volume of the cube is less than the volume of the box</p> <p>B. Volume of the cube is greater than the volume of box</p> <p>C. Volume of the cube is equal to the volume of box</p> <p>D. The surface area of both cube and box are equal</p>
19	Fatima and Maryium each roll a sheet of $9 \times 18$ paper to form a cylinder. Fatima tapes the two 9-inch edge together and Maryium tapes the two 18-inch edge together. Refer to this question and tell which of the following statement is true ?	<p>A. The volume of Fatima cylinder is greater than Maryium cylinder</p> <p>B. The volume of Fatima cylinder is less than Maryium cylinder</p> <p>C. The volume of Fatima cylinder is equal to the Maryium cylinder</p> <p>D. Both cylinders have the same circumference</p>
20	If the height of a cylinder is double to its circumference, what is the volume of the cylinder in terms of its circumference, C ?	<p>A. <math>C/\pi</math></p> <p>B. <math>C^3/\pi</math></p> <p>C. <math>C^3/4\pi</math></p> <p>D. <math>C^3/2\pi</math></p>

