

GAT-B Arts, Humanities & Social Science Quantitative

Sr	Questions	Answers Choice
1	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
2	If $a/2 - 2 > a/3$, then which of the following statement is true ?	A. $a < 12$ B. $a > 12$ C. $a = 12$ D. $a \geq 12$
3	If 80 % application to a program were rejected, what is the ratio of the number accepted to the number rejected ?	A. 1 : 4 B. 4 : 1 C. 1 : 8 D. 3 : 8
4	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. $4T - 8$
5	If the L.C.M and H.C.F of two numbers are 150 and 30 respectively, and one of the numbers is 18, find the other number ?	A. 250 B. 180 C. 150 D. 170
6	One sixth of a day is what part of the time between 3 p.m. Monday and 3 p.m Thursday of the same week?	A. 1/10 B. 1/18 C. 1/15 D. 1/12
7	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
8	The product of $\sqrt{24a}$ and $\sqrt{6a}$ is:	A. $12a$ B. $6a^2$ C. $12a^2$ D. $3a\sqrt{8}$
9	The average height of a class of 14 boys is 5.3 feet. A new boy is admitted to the class. The new average of 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
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 325 B. 225 C. 125 D. cannot be exactly determined form the given information
11	A village has 5860 voters, of whom 7% usually forget to vote. In order to win an election, a candidate must gain at least 50% of the remaining votes. How many votes does he need in order to win ?	A. 2725 B. 410 C. 5450 D. None of these
12	What is the average of 3^{10} , 3^{20} and 3^{30} ?	A. 3^{59} B. $3^9 + 3^{19} + 3^{29}$ C. 3^{57} D. $3^{11} + 3^{21} + 3^{31}$
13	What is the smallest number which when subtracted form 1.00060219 gives a perfect square number ?	A. 0.00210 B. 210 C. 0.00000210 D. 0.210

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.

- A. A
 B. B
 C. C
 D. D

- 14 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.

Column A

$$2^{5-1}$$

Column B

$$2^5 - 1$$

- 15 Question Image

- A. $28 - 2x$
 B. $4(14 - 4x)$
 C. $48 - 3x$
 D. $7(6 - 3x)$

- 16 If a circle is inscribed in a square of area 4, then the area of the circle is:

- A. π
 B. $\pi/2$
 C. $\pi/4$
 D. $3\pi/4$

- 17 Naghmana has 4 shirts of red, blue, green, and brown colors. She also has 3 trousers of black, brown, and white colors. How many different shirt trouser combinations can she wear, if she has decided to wear the white trouser?

- A. 4
 B. 6
 C. 8
 D. 12
 E. 24

- 18 If $(5^a)(5^b) = 5^c/5^d$, what is d in terms of a, b and c?

- A. $a + b - c$
 B. $a - b + c$
 C. $a + b + c$
 D. $c - a - b$

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.

- 19 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.

- A. A
 B. B
 C. C
 D. D

Column A

$$pq$$

Column B

$$1$$

$$(p + q = 1)$$

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.

- 20 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.

- A. A
 B. B
 C. C
 D. D

Column A

The average (arithmetic mean) of a and b

Column B

The average (arithmetic mean) of a, b and 2b

$$b > 0$$