

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

Sr	Questions	Answers Choice
1	If P is a negative integer and $p^2 + 11p = t$ , a value of t could be	A. 12 B. 18 C. -18 D. 11
2	<div style="border: 1px solid #ccc; width: 100%; height: 20px; margin-bottom: 5px;"></div> Question Image	A. $2(2 + \sqrt{2})$ B. $4 + \sqrt{2}$ C. $2 + \sqrt{2}$ D. 4
3	The death rates for three diseases are Disease R 2 people out of 10,000 Disease S 13 people out of 1,000,000 Disease T 9 people out of 100,000 What is the combined death rate for the three diseases?	A. 123 out of 1,000,000 B. 42 out of 10,000 C. 42 out of 1000,000 D. 303 out of 1,000,000
4	If $x < 0$ , then $-3x^2$ is:	A. less than $(-3x)^2$ B. greater than $(-3x)^2$ C. equal to $(-3x)^2$ D. greater than or equal to $(-3x)^2$
5	A soap factory has 30 packers. Each packer can load $\frac{1}{8}$ of a box in 9 minutes. How many boxes can be loaded in $1\frac{1}{2}$ hours by all 20 packers ?	A. 28 B. $37\frac{1}{2}$ C. 35 D. $35\frac{1}{2}$
6	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> $2^{5-1}$ <b>Column B</b> $2^5 - 1$	A. A B. B C. C D. D
7	A candy recipe calls for 5 parts milk, 4 parts cocoa, 4 parts syrup, 2 parts sugar, and 1 part 1 butter. If you use 8 ounces of milk, how many ounces of candy mixture can you make?	A. $25\frac{3}{5}$ B. $5\frac{3}{5}$ C. 20 D. 128
8	A rectangular field which is twice as long as it is broad, has an area of $14450\text{ m}^2$ , what is its perimeter ?	A. 85 m B. 510 m C. 165 m D. 170 m
9	$3-7 =$	A. -7 B. 7 C. -4 D. 4
10	If $xy > 0$ and $x < 0$ , which of the following negative ?	A. $-x$ B. -y C. y D. xy
		A. exaggerates the H & B

- 11 Reporter: H & B Co. has misled its clients by promoting some Egyptian porcelain figurines as rare; in fact those pieces are relatively commonplace. H & B Representative: That is absurd! H & B is the largest antique dealer in the country. We authenticate the figurines we sell through a nationally recognized firm.  
Q: The H & B Representative's reply is most vulnerable to the criticism that it .

Representative's claims in order to make them appear absurd  
B. accuses the H & B Representative of bias but presents no evidence to support that accusation  
C. fails to establish that other antique dealers do not also authenticate the figurines those dealers sell  
D. lists strengths of H & B while failing to address the representative's charge

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- 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.

- 12 Notes: Sometimes, in certain questions, 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**

x

**Column B**

5

$$1/x = 5$$

- 13 The smallest even number of three digits is:

A. 98  
B. 102  
C. 998  
D. 100

- 14 If a square of area 3 is inscribed in a circle, then the area of the circle is:

A.  $\frac{9}{4}\pi$   
B.  $9\pi^{2/2}$   
C.  $3\pi$   
D.  $\sqrt{3}\pi$

- 15 If the base of a rectangle is increased by 40% and its altitude is decreased by 20% then its area is:

A. decreased by 20%  
B. increased by 12%  
C. decreased by 12%  
D. increased by 16%

- 16 What is the least positive integer which is to be added to 57592910 so that the sum may be a perfect square ?

A. 7588  
B. 7  
C. 11  
D. 15166

- 17 Concrete consists of cement, sand and screenings in the ratio of 1 : 5 : 4, what is the percentage of the sand mixed ?

A. 10%  
B. 40%  
C. 50%  
D. 60%

- 18  $(a + b)(a - b) =$

A.  $a(a - b) - b(a - b)$   
B.  $a(b - a) + b(a - b)$   
C.  $a(a + b) - b(b + a)$   
D.  $a(a - b) + b(b - a)$

- 19 If the ratio of a : b is 9 : 7 then a + b is:

A. 14  
B. 16  
C. 63  
D. not possible

- 20 If  $1/x - y = 7$ , then x =

A.  $x + 1/7$   
B.  $x - 1/7$   
C.  $1/7 - x$   
D.  $x/7 - 1$