

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

Sr	Questions	Answers Choice
1	Question Image <input type="text"/>	A. 20 B. 24 C. 40 D. 96
2	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
3	If $\frac{4}{13}$ of a number is 39, what is $\frac{8}{13}$ of that number ?	A. $\frac{39}{4}$ B. 78 C. 16 D. $\frac{39}{8}$
4	The number which is divisible by 7 but not by 14 is :	A. 21 B. 12 C. 71 D. None of these
5	If the ratio of x and y is $\frac{11}{3}$ , what is the value of $2x$ to y ?	A. $\frac{11}{6}$ B. $\frac{22}{6}$ C. $\frac{22}{3}$ D. $\frac{11}{5}$
6	<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> x <b>Column B</b> 5  <math>\frac{1}{x} = 5</math></p>	A. A B. B C. C D. D
7	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
8	For which values of p is $p^2 - 5p + 6$ negative ?	A. $p < 0$ B. $2 < p < 3$ C. $x > 3$ D. $x < 2$
9	<p>The CEO of a large multinational firm wants to maximize revenues and increase sales. The production director, however, believes that increased production would only drive down the product price and lower revenues.</p> <p>Q: Which of the following represents the logical flaw in director's reasoning?</p>	A. The director assumes the plant at the firm is old fashioned B. He assumes that production goals are similar to financial goals C. He assumes that the supply produced by a single company can significantly after the aggregate supply for the market D. He assumes that they are market leader with a share of more than ninety percent of the aggregate sales
10	Find the value of x if $3 : b = x : c$ .	A. $\frac{3b}{c}$ B. $\frac{c}{3b}$ C. $\frac{c}{3}$ D. $\frac{3}{c}$

C. 2c/3b  
D. 3c/b

11 A clock gain 8 minutes every x hours. How many hours will the clock gain in 3 days?

A. 576/x  
B. 48/5x  
C. 24/x  
D. 576/5x

12 Two spinning machines A and B can together produce 300,000 meters of cloth in 10 hours. If machine B alone can produce the same amount of cloth in 15 hours, how much cloth can machine A produce alone in 10 hours?

A. 200,000 meters  
B. 100,000 meters  
C. 150,000 meters  
D. 50,000 meters  
E. 250,000 meters

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.

13 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**

x

**Column B**

$(11/13)^5$

$x^5 = 11/13$

14 In inequality  $y > 3x - 2$  if  $a > b$ , then which of the following statement is true ?

A.  $x = 1$   
B.  $x > 1$   
C.  $x < 1$   
D.  $x \geq 1$

15 Acme brand aspirin claims to be the best headache relief available on the market today. To prove this claim, Acme called 10 people and asked them their thoughts on headache relief products. All 10 of them stated that they unequivocally use Acme brand aspirin on a regular basis and that they believe it to be the best headache relief available on the market today. Q: Which of the following would most weaken this argument?

A. Acme brand aspirin is highly addictive  
B. The 10 people called were spouses of Acme employees  
C. Most people choose to suffer silently through their headaches and take no medicines whatsoever  
D. The 10 people called own stock in a competing company

16 If  $x/9 = 2/3$ , then  $x =$

A. 8/3  
B. 6  
C. 3  
D. 27/2

17 Clarinet reeds often lose their freshness - become less responsive - after a few weeks of intense use. One clarinetist has hypothesized that a buildup of oil, rather than changes in the material properties of the reed, were responsible.

Q: Which of the following investigations is most likely to yield significant information that would help to evaluate the hypothesis?

A. Determining what kind of wood is used to make the reeds used by jazz clarinetists  
B. Determining whether jazz clarinetists make their reeds lose their freshness faster than do classical clarinetists  
C. Determining whether identical lengths of reeds, of the same thickness, lose their freshness at different rates when put onto various brands of clarinets  
D. Determining whether rubbing various substances on the new reed causes them to lose their freshness.

18 The surface area of sphere of radius  $3\frac{1}{2}$  cm is:

A. 130 sq.cm  
B. 69 sq.com  
C. 154 sq.cm  
D. 98 sq.cm

19 Question Image

A. Zero  
B. 9  
C. 5  
D. 14

20 Question Image