

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

Sr	Questions	Answers Choice
1	A cylinder and the cube have the same volume, if the height, $h$ , of that cylinder is equal to the edge $e$ of the cube, the radius of the cylinder is:	A. $\sqrt{\pi}/h$ B. $\pi/h$ C. $h/\sqrt{\pi}$ D. $2\pi/h$
2	A solid metal cube of side 5 inches is placed in a rectangular tank whose length, breadth and height are 5, 6 and 7 inches, respectively. What is the volume in cubic units, of water that the tank can now held ?	A. 210 cubic inches B. 85 cubic inches C. 125 cubic inches D. 216 cubic inches
3	The volume of a cube is 216, its surface area is:	A. 64 B. 216 C. 25 D. 96
4	The surface area of a cube is 180, its volume is:	A. 125 B. 30 C. 164 D. $30\sqrt{30}$
5	Question Image	A. $2535 \text{ cm}^2$ B. $2720 \text{ cm}^2$ C. $3348 \text{ cm}^2$ D. $628 \text{ cm}^2$
6	A square, with perimeter 16, is inscribed in a circle, what is the area of the circle ?	A. $3\pi$ B. $2\sqrt{2}\pi$ C. $32\pi$ D. $8\pi$
7	If the radius of the circle is decreased by 20%, what happens the area ?	A. 10% in crease B. 20% decrease C. 80% increase D. 36% decrease
8	Question Image	A. $28 - 2x$ B. $4(14 - 4x)$ C. $48 - 3x$ D. $7(6 - 3x)$
9	Question Image	A. $12 \text{ cm}^2$ B. $25 \text{ cm}^2$ C. $9 \text{ cm}^2$ D. $17.23 \text{ cm}^2$
10	Question Image	A. 6 B. 49 C. 8 D. Not possible
11	The area of the sector which contains an angle of $60^\circ$ of circle of radius 7 cm, is:	A. $25 \frac{2}{3} \text{ cm}^2$ B. $27 \frac{2}{3} \text{ cm}^2$ C. $41 \text{ cm}^2$ D. $\sqrt{3} \frac{5}{28} \text{ cm}^2$
12	Question Image	A. $\pi^2(r^2 - R^2)$ B. $\pi r^2 - \pi R^2$ C. $\pi(R + r)(R - r)$ D. $\pi(R + r)(R - r)$
13	Question Image	A. $54 \text{ cm}^2$ B. $24 \text{ cm}^2$ C. $96 \text{ cm}^2$ D. $59 \text{ cm}^2$
14	Question Image	A. 125 sq.cm B. 150.72 sq.cm C. 64 sq.cm D. 56 sq.cm

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

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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.

**Column A**

Q1. The product of the odd integers between -8 and 8.

**Column B**

Q1. The product of the even integers between -9 and 9.

16

Question Image

A.  $33\pi$   
 B.  $24\pi$   
 C.  $25\pi$   
 D.  $11\pi$

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The height of a triangle of base 3 cm and area  $9 \text{ cm}^2$  is:

A. 6 cm  
 B. 9 cm  
 C. 18 cm  
 D. 22 cm

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Question Image

A. 16 sq.cm  
 B. 15 sq.cm  
 C. 60 sq.cm  
 D. None of these

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Question Image

A. 125 sq.cm  
 B. 132 sq.cm  
 C. 139 sq.cm  
 D. 97 sq.cm

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

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