

## GAT-A Business and Engineering Quantitative

Sr	Questions	Answers Choice
1	Question Image	A. $81 + 81\sqrt{3}$ B. $18 + 18\sqrt{3}$ C. $12(1 + 2\sqrt{3})$ D. $12 + 12\sqrt{3}$
2	Question Image	A. $3\sqrt{3}$ B. $36\sqrt{3}$ C. 81 D. $81\sqrt{3}$
3	If the angles of a hexagon are in the ratio $2 : 4 : 4 : 4 : 5 : 5$ , what is the degree measure of the smallest angle ?	A. 30 B. 60 C. 40 D. 70
4	If the length of a rectangle is 4 times its width, and if its area is 196, what is its perimeter ?	A. 60 B. 28 C. 35 D. 70
5	Question Image	A. $2 + \sqrt{2}$ B. $4 + \sqrt{2}$ C. $4(1 + \sqrt{2})$ D. $16(1 + \sqrt{2})$
6	A triangle has sides, 5 inches, 12 inches and 13 inches, respectively. A rectangle equal in area to that of the triangle has width of 4 inches. The perimeter of the rectangle, expressed in inches, is:	A. 23 B. 28 C. 60 D. 32
7	Question Image	A. 120 B. 60 C. 90 D. 30
8	The length of a rectangle is twice its width. If the perimeter of a rectangle is the same as the perimeter of a square of size 9, what is the length of a diagonal of the rectangle ?	A. 180 B. $3\sqrt{5}$ C. 36 D. $6\sqrt{5}$
9	Question Image	A. 60 B. 40 C. 24 D. 36
10	Question Image	A. 2 B. 4 C. $2\sqrt{2}$ D. $4\sqrt{2}$
11	Question Image	A. $2(2 + \sqrt{2})$ B. $4 + \sqrt{2}$ C. $2 + \sqrt{2}$ D. 4
12	Question Image	A. $p = 180 + q$ B. $q = 30 + p$ C. $p = 90 + q$ D. $p = 60 - q$
13	Question Image	A. 54 B. 72 C. $4 + \sqrt{3}$ D. $12(4 + \sqrt{3})$
14	Question Image	A. $3 + 4\sqrt{3}$ B. $18(3 + 4\sqrt{3})$ C. 54 D. $84\sqrt{3}$
15	In figure 2, what is the perimeter of $\triangle BED$ ?	A. $3 + \sqrt{93}$ B. 11 C. $11 + \sqrt{97}$ D. 81

- 16 In figure 2, what is the area of  $\Delta BED$  ?  
A. 16  
B. 14  
**C. 12**  
D. 6
- 17 What is the perimeter of  $\Delta CEA$ , in the figure 1 ?  
A. 16  
B. 25  
C. 17  
**D.  $2 + 7\sqrt{5}$**
- 18 What is the area of the triangle  $AEC$ , in the above figure 1 ?  
A. 12  
B. 49  
**C. 14**  
D. 21
- 19 Question Image  
A.  $100\pi$   
B.  $60\pi$   
**C.  $30\pi$**   
D.  $110\pi$
- 20 The area of an equilateral triangle whose altitude is 10, is:  
A.  $8\sqrt{3}$   
B.  $2\sqrt{3}$   
**C.  $96\sqrt{3}$**   
D.  $4\sqrt{3}$
- 21 Question Image  
A. 35  
**B. 45**  
C. 55  
D. 40
- 22 Question Image  
A.  $100\pi$   
B.  $60\pi$   
**C.  $80\pi$**   
D.  $40\pi$
- 23 Question Image  
A.  $20\pi$   
**B.  $70\pi$**   
C.  $100\pi$   
D.  $110\pi$
- 24 Question Image  
A. 80  
B. 110  
**C. 100**  
D. 95
- 25 Question Image  
A.  $70\pi$   
B.  $60\pi$   
C.  $75\pi$   
**D.  $65\pi$**
- 26 Question Image  
A. 89  
B. 90.9  
**C. 89.9**  
D. 105
- 27 Question Image  
A. 50  
B. 30  
C. 45  
**D. 40**
- 28 Question Image  
A.  $x$  only  
B.  $y$  only  
C.  $x$  and  $y$  only  
**D.  $y$  and  $z$  only**
- 29 Question Image  
A. 70  
B. 45  
C. 40  
**D. 65**
- 30 Question Image  
A.  $x + y = 180$   
B.  $x - y = 180$   
C.  $180 < x + y \leq 270$   
**D. Insufficient information**