

SSC CGL 2017 EXAM PAPER : Held on 17-AUG-2017 Shift-3
(Mathematics)

QID : 251 - What least number must be added to 4131, so that the sum is completely divisible by 19?

Options:

- 1) 10
- 2) 11
- 3) 9
- 4) 12

Correct Answer: 11

QID : 252 - A, B and C can finish a job working alone in 12, 8 and 24 days respectively. In how many days they can finish the job if they worked together?

Options:

- 1) 5
- 2) 6
- 3) 4
- 4) 3

Correct Answer: 4

QID : 253 - What is the area (in sq cm) of an equilateral triangle of side 14 cm?

Options:

- 1) 49 3

- 2) 98 3
- 3) $(49/2)$ 3
- 4) $(49/4)$ 3

Correct Answer: 49 3

QID : 254 - What is the effective discount (in %) on two successive discounts of 20% and 10%?

Options:

- 1) 30
- 2) 32
- 3) 35
- 4) 28

Correct Answer: 28

QID : 255 - Profit of Rs 1,03,500 has to be divided between three partners A, B and C in the ratio 11:7:5. How much amount (in Rs) does B get?

Options:

- 1) 22,500
- 2) 49,500
- 3) 50,500
- 4) 31,500

Correct Answer: 31,500

QID : 256 - The average weight of P, Q and R is 45 kg. If the average weight of P and Q be 36.5 kg and that of Q and R be 52 kg, then what is the weight (in kgs) of Q?

Options:

- 1) 42
- 2) 44
- 3) 46
- 4) 48

Correct Answer: 42

QID : 257 - A shopkeeper by selling 21 items earns a profit equal to the selling price of 1 item. What is his profit percentage?

Options:

- 1) 5.5
- 2) 2.2
- 3) 2
- 4) 5

Correct Answer: 5

QID : 258 - What is the value of 10% of 150% of 400?

Options:

- 1) 600
- 2) 50
- 3) 500
- 4) 60

Correct Answer: 60

QID : 259 - To cover a distance of 144 km in 3.2 hours what should be the average speed of the car in meters/second?

Options:

- 1) 12.5
- 2) 10
- 3) 7.5
- 4) 15

Correct Answer: 12.5

QID : 260 - If in 2 years at simple interest the principal increases by 18%, what will be the compound interest (in Rs) earned on Rs 7000 in 3 years at the same rate?

Options:

- 1) 1865.2
- 2) 2065.2
- 3) 1965.2
- 4) 1765.2

Correct Answer: 2065.2

QID : 261 - If $x/3 - [5(7x/5 - 4/3)]/2 = -x/6$, then what is the value of x?

Options:

- 1) 10/9
- 2) -10/9
- 3) -9/10
- 4) 9/10

Correct Answer: 10/9

QID : 262 - If $a^3 + b^3 = 19$ and $a + b = 1$, then what is the value of ab ?

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Options:

- 1) 5
- 2) -6
- 3) 7
- 4) -9

Correct Answer: -6

QID : 263 - A fraction is greater than its reciprocal by $(72)/(77)$. What is the fraction?

Options:

- 1) $7/11$
- 2) $11/7$
- 3) $4/7$
- 4) $7/4$

Correct Answer: $11/7$

QID : 264 - What is the sum of the first 12 terms of an arithmetic progression if the first term is -19 and last term is 36?

Options:

- 1) 192
- 2) 230
- 3) 102
- 4) 214

Correct Answer: 102

QID : 265 - What is the reflection of the point (-2, 5) in the line $x = -1$?

Options:

- 1) (-2, -7)
- 2) (0, 5)
- 3) (2, 5)
- 4) (-2, 7)

Correct Answer: (0, 5)

QID : 266 - Point P is the midpoint of segment AB. Co-ordinates of P are (3, 1) and B are (5, -4). What are the co-ordinates of point A?

Options:

- 1) (-1, 7)
- 2) (1, -7)

- 3) (1 , 6)
- 4) (-1 , -7)

Correct Answer: (1 , 6)

QID : 267 - What is the slope of the line perpendicular to the line passing through the points (-5 , 1) and (-2 , 0)?

Options:

- 1) -3
- 2) 3
- 3) -1/3
- 4) 1/3

Correct Answer: -1/3

QID : 268 - ABC is similar to PQR. If ratio of perimeter of ABC : perimeter of PQR is 5:9 and if PQ = 45 cm, then the length of AB (in cm) is?

Options:

- 1) 15
- 2) 20
- 3) 25
- 4) 16

Correct Answer: 25

QID : 269 - What is the value of $(\frac{1}{2}) \cot 45^\circ + (\frac{1}{3}) \operatorname{cosec} 60^\circ$?

Options:

- 1) $(\sqrt{6} + 1)/3$
- 2) $\sqrt{3}$
- 3) $(1 + \sqrt{3} \sqrt{2})/3$
- 4) $(3 + 2\sqrt{2})/3\sqrt{2}$

Correct Answer: $(3 + 2\sqrt{2})/3\sqrt{2}$

QID : 270 - ABC is right angled at B. If $m\angle A = 60^\circ$, then what is the value of $\sec C \cdot \sin A$?

Options:

- 1) $2/\sqrt{3}$
- 2) $\sqrt{3}/2$
- 3) $2/3$
- 4) 1

Correct Answer: 1

QID : 271 - If $\tan \theta = 7/24$, then what is the value of $\sec \theta$?

Options:

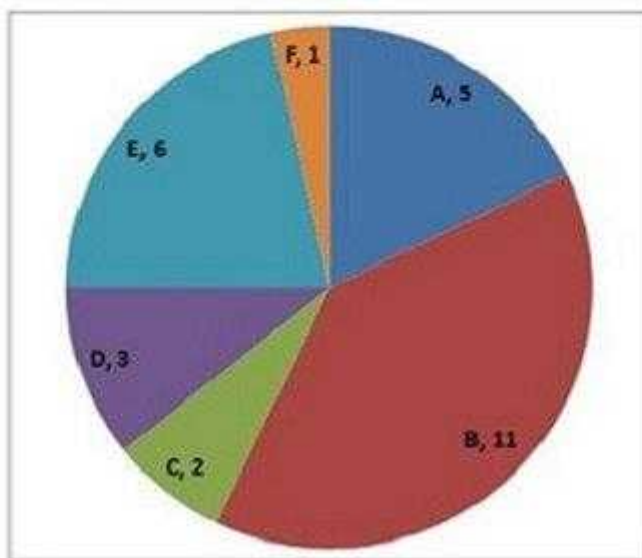
- 1) $24/25$
- 2) $24/7$
- 3) $25/7$
- 4) $25/24$

Correct Answer: $25/24$

QID : 272 -

The pie chart shows tickets sold (in 1000s) per month by six different airlines (A, B, C, D, E, F). Study the diagram and answer the following questions.

पाई चार्ट छह भिन्न-भिन्न एयरलाइन्स (A, B, C, D, E, F) द्वारा प्रति माह बेचे जाने वाली टिकट (हज़ारों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



Which airline sold the second highest number of tickets?

Options:

- 1) E
- 2) A
- 3) B
- 4) D

Correct Answer: E

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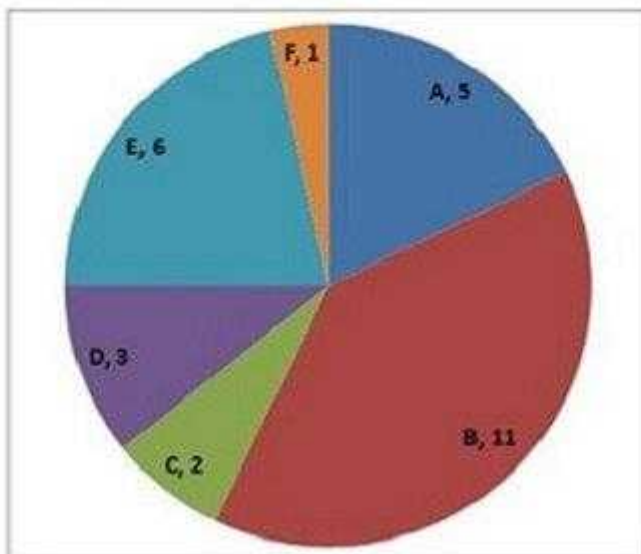
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QID : 273 -

The pie chart shows tickets sold (in 1000s) per month by six different airlines (A, B, C, D, E, F). Study the diagram and answer the following questions.

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Airline E sold how many more tickets than Airline A?

Options:

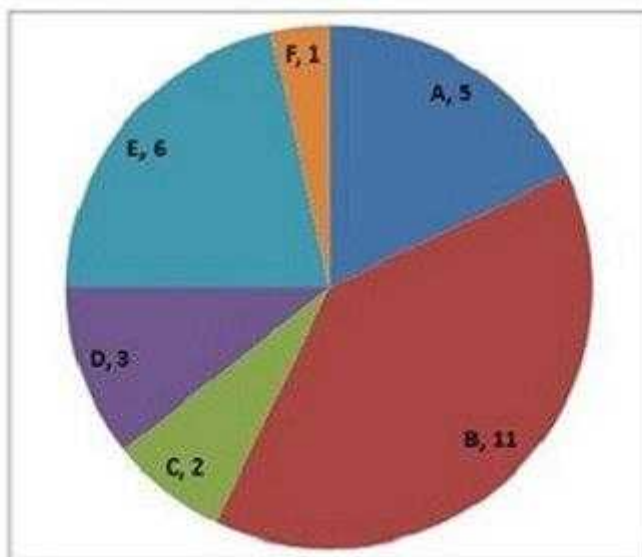
- 1) 25
- 2) 16
- 3) 20
- 4) 10

Correct Answer: 20

QID : 274 -

The pie chart shows tickets sold (in 1000s) per month by six different airlines (A, B, C, D, E, F). Study the diagram and answer the following questions.

पाई चार्ट छह भिन्न-भिन्न एयरलाइन्स (A, B, C, D, E, F) द्वारा प्रति माह बेचे जाने वाली टिकटें (हज़ारों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



The ratio of tickets sold by Airlines A and D to tickets sold by Airline E is?

Options:

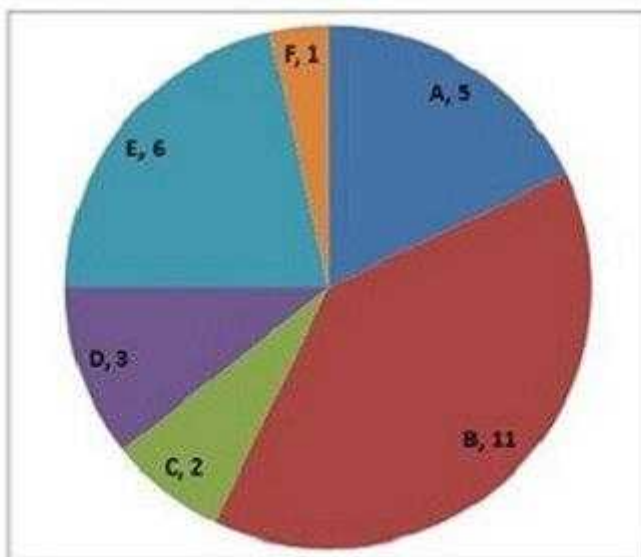
- 1) 3 : 4
- 2) 4 : 3
- 3) 2 : 3
- 4) 4 : 1

Correct Answer: 4 : 3

QID : 275 -

The pie chart shows tickets sold (in 1000s) per month by six different airlines (A, B, C, D, E, F). Study the diagram and answer the following questions.

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If the price of an airline ticket is Rs 7000 then by what amount, monthly Revenue (in Rs. Millions) from sale of tickets of Airline B is greater than that of Airline E?

Options:

- 1) 77
- 2) 7
- 3) 35
- 4) 42

Correct Answer: 35



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