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**SSC CGL 2017 EXAM PAPER : Held on 19-AUG-2017 Shift-3**  
**(Mathematics)**

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**QID : 251 - What least number must be subtracted from 3401, so that the sum is completely divisible by 11?**

**Options:**

- 1) 3
- 2) 1
- 3) 2
- 4) 0

**Correct Answer: 2**

**QID : 252 - M is thrice as good as workman as N and together they finish a piece of work in 30 days. In how many days will M alone finish the work?**

**Options:**

- 1) 50
- 2) 40
- 3) 60
- 4) 45

**Correct Answer: 40**

**QID : 253 - What is the area (in sq cm) of a regular hexagon of side 14 cm?**

**Options:**

- 1) 147 3
- 2) 441 3
- 3) 196 3
- 4) 294 3

**Correct Answer: 294 3**

**QID : 254 - If 2 T-shirts are offered free on purchase of 5 T-shirts, what is the effective discount (in %) on each T-shirt?**

**Options:**

- 1) 40
- 2) 20
- 3) 30
- 4) 50

**Correct Answer: 40**

**QID : 255 - The ratio of present ages of R and S is 11:17. Before 11 years the ratio of their ages was 11:20. What is R's present age (in years)?**

**Options:**

- 1) 51
- 2) 33
- 3) 22
- 4) 40

**Correct Answer: 33**

**QID : 256 - The average marks of 40 students in an examination was 25. It was later found that the marks of one student had been wrongly entered as 73 instead of 37. What is the value of correct average?**

**Options:**

- 1) 24.3
- 2) 24.1
- 3) 24.5
- 4) 24.7

**Correct Answer: 24.1**

**QID : 257 - A wholesaler sells a jacket to a retailer at a profit of 5% and the retailer sells it to a customer at a profit of 10%. If the customer pays Rs. 4158, what had it cost (in Rs) to the wholesaler?**

**Options:**

- 1) 3500
- 2) 3400
- 3) 3300
- 4) 3600

**Correct Answer: 3600**

**QID : 258 - A number is increased by 84, it becomes 107% of itself. What is the number?**

**Options:**

- 1) 600
- 2) 900
- 3) 1500
- 4) 1200

**Correct Answer: 1200**

**QID : 259 - If a boat goes a certain distance at 30 km/hr and comes back the same distance at 60 km/hr. What is the average speed (in km/hr) for the total journey?**

**Options:**

- 1) 45
- 2) 50
- 3) 40
- 4) 35

**Correct Answer: 40**

**QID : 260 - An amount fetched a total simple interest of Rs. 3200 at the rate of 6.25 %/yr in 4 years. What is the amount (in Rs)?**

**Options:**

- 1) 13800
- 2) 11800
- 3) 12800
- 4) 14800

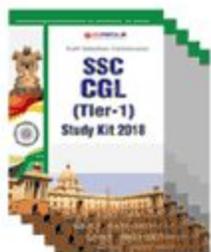
**Correct Answer: 12800**

**QID : 261 - If  $x/2 - [4(15/2 - x/3)]/3 = -x/18$ , then what is the value of x?**

**Options:**

- 1) -10
- 2) 9/8

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- 3) 10
- 4)  $-9/8$

**Correct Answer: 10**

**QID : 262 - If  $a^3 + b^3 = 152$  and  $a + b = 8$ , then what is the value of  $ab$ ?**

**Options:**

- 1) 2
- 2) 11
- 3) -10
- 4) 15

**Correct Answer: 15**

**QID : 263 - A fraction is greater than its reciprocal by  $9/20$ . What is the fraction?**

**Options:**

- 1)  $5/4$
- 2)  $4/5$
- 3)  $3/4$
- 4)  $4/3$

**Correct Answer:  $5/4$**

**QID : 264 - What is the sum of the first 9 terms of an arithmetic progression if the first term is 7 and last term is 55?**

**Options:**

- 1) 219
- 2) 137
- 3) 231
- 4) 279

**Correct Answer: 279**

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

**Options:**

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

**Correct Answer: (-7, -2)**

**QID : 266 - Point A divides segment BC in the ratio 4:1. Co-ordinates of B are (6 , 1) and C are (7/2 , 6). What are the co-ordinates of point A?**

**Options:**

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

**Correct Answer: (4 , 5)**

**QID : 267 - What is the slope of the line parallel to the line passing through the points (5, -1) and (4, -4)?**

**Options:**

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

**Correct Answer: 3**

**QID : 268 - XYZ is similar to PQR. If ratio of Perimeter of XYZ and Perimeter of PQR is 16:9 and PQ = 3.6 cm, then what is the length(in cm) of XY?**

**Options:**

- 1) 4.8
- 2) 3.2
- 3) 6.4
- 4) 8.6

**Correct Answer: 6.4**

**QID : 269 - What is the value of  $(\frac{1}{2}) \sec 30^\circ + 2 \tan 60^\circ$ ?**

**Options:**

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

**Correct Answer:  $(1 + 3\sqrt{2})/3$**

**QID : 270 - DEF is right angled at E. If  $m\angle D = 45^\circ$ , then what is the value of  $\operatorname{cosec} F \times \cot D$ ?**

**Options:**

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

**Correct Answer: 2**

**QID : 271 - If  $\sec \theta = 25/24$ , then what is the value of  $\sin \theta$  ?**

**Options:**

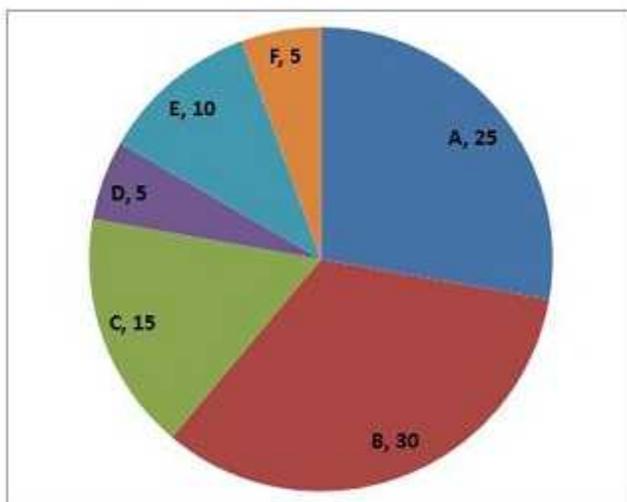
- 1)  $24/25$
- 2)  $7/25$
- 3)  $24/7$
- 4)  $25/7$

**Correct Answer:  $7/25$**

**QID : 272 -**

Students from different countries (A, B, C, D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.

विभिन्न देशों (A, B, C, D, E, F) से आए छात्रों ने एक विशिष्ट सेमिनार में भाग लिया। पाई चार्ट यह दर्शाता है कि छह प्रतिभागी देशों में से प्रत्येक में कितने छात्र आए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

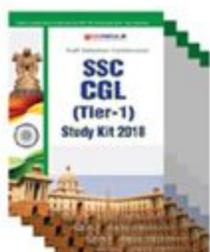


**The biggest contingent of students was from which country?**

**Options:**

- 1) A
- 2) C
- 3) B

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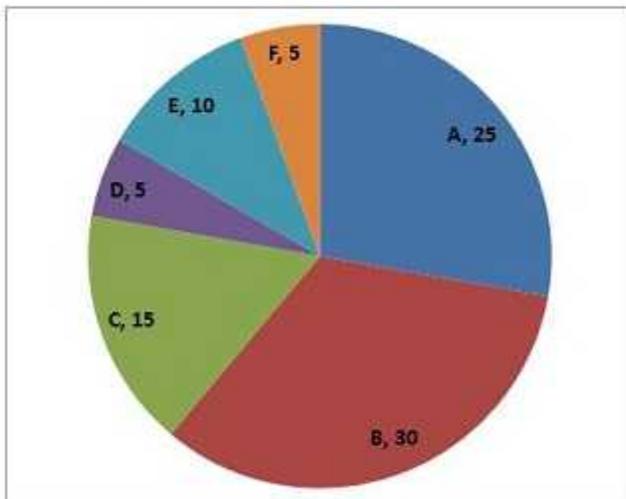
4) D

**Correct Answer: B**

**QID : 273 -**

Students from different countries (A, B, C, D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.

विभिन्न देशों (A, B, C, D, E, F) से आए छात्रों ने एक विशिष्ट सेमिनार में भाग लिया। पाई चार्ट यह दर्शाता है कि छह प्रतिभागी देशों में से प्रत्येक में कितने छात्र आए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



**What is the angular measure (in degrees) of the sector representing Country A?**

**Options:**

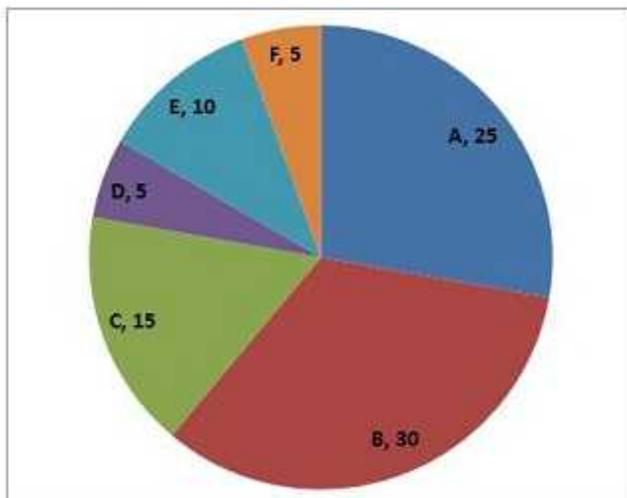
- 1) 100
- 2) 25
- 3) 50
- 4) 120

**Correct Answer: 100**

**QID : 274 -**

Students from different countries (A, B, C, D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.

विभिन्न देशों (A, B, C, D, E, F) से आए छात्रों ने एक विशिष्ट सेमिनार में भाग लिया। पाई चार्ट यह दर्शाता है कि छह प्रतिभागी देशों में से प्रत्येक में कितने छात्र आए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



**By what count (in %) students from Country B at the seminar were more than the students from Country E?**

**Options:**

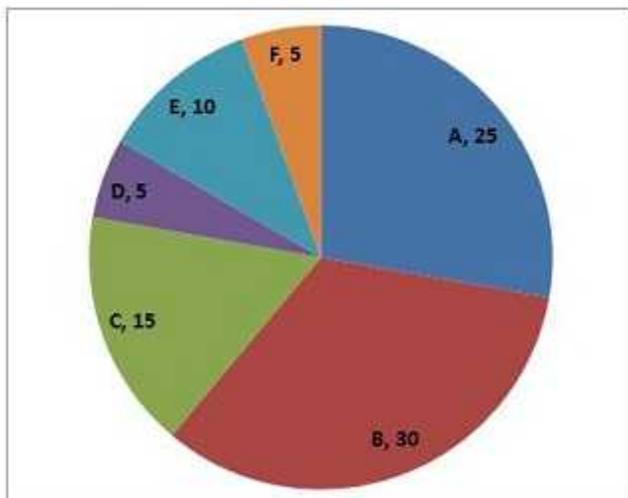
- 1) 40
- 2) 200
- 3) 20
- 4) 18

**Correct Answer: 200**

**QID : 275 -**

Students from different countries (A, B, C, D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.

विभिन्न देशों (A, B, C, D, E, F) से आए छात्रों ने एक विशिष्ट सेमिनार में भाग लिया। पाई चार्ट यह दर्शाता है कि छह प्रतिभागी देशों में से प्रत्येक में कितने छात्र आए हैं। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

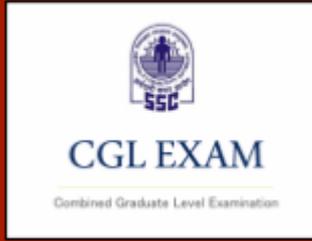


If the cost of total spending on transport for the seminar was Rs 9 lakhs and the cost of hosting the students was Rs 15000 per student then what was the ratio of hosting cost of all the students to that of spending on transport?

**Options:**

- 1) 2 : 5
- 2) 3 : 2
- 3) 1 : 1
- 4) 1 : 2

**Correct Answer: 3 : 2**



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