

SSC CGL 2017 EXAM PAPER : Held on 21-AUG-2017 Shift-3

(Mathematics)

QID : 251 - What is the remainder when 2468 is divided by 37?

Options:

- 1) 26
- 2) 36
- 3) 18
- 4) 14

Correct Answer: 26

QID : 252 - A can do 75% of a job in 9 days and B can do half of the job in 8 days. If they work on it together, then in how many days can they do half of the job?

Options:

- 1) 40/7
- 2) 24/7
- 3) 7/2
- 4) 9/2

Correct Answer: 24/7

QID : 253 - Area of 4 walls of a cuboid 400 sq cm, its length is 15 cm and height is 8 cm. What is its breadth (in cm)?

Options:

- 1) 12
- 2) 20
- 3) 24
- 4) 10

Correct Answer: 10

QID : 254 - At 20% discount the selling price of an article is Rs 2400, what is the selling price (in Rs) if the discount is 32.5%?

Options:

- 1) 2125
- 2) 2225
- 3) 2025
- 4) 2325

Correct Answer: 2025

QID : 255 - What is the fourth proportional to 24, 120 and 22?

Options:

- 1) 110
- 2) 120
- 3) 100
- 4) 90

Correct Answer: 110

QID : 256 - What is the average of all numbers between 8 and 74 which are divisible by 7?

Options:

- 1) 40
- 2) 41
- 3) 42
- 4) 43

Correct Answer: 42

QID : 257 - A trader had 1200 kgs of rice. He sold a part of it at 5% profit and the rest at 11% profit, so that he made a total profit of 7%. How much (in kg) wheat did he sell at 5% profit?

Options:

- 1) 900
- 2) 600

- 3) 400
- 4) 800

Correct Answer: 800

QID : 258 - 20% of a = b, then b% of 20 is the same as _____ of a.

Options:

- 1) 8%
- 2) 40%
- 3) 4%
- 4) 80%

Correct Answer: 4%

QID : 259 - After excluding stoppages, the speed of a bus is 60 kmph and after including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

Options:

- 1) 10
- 2) 9
- 3) 12
- 4) 15

Correct Answer: 15

QID : 260 - The simple and compound interest that can be earned in two years at the same rate is Rs 1,000 and Rs 1,040 respectively. What is the rate (percent per annum) of interest?

Options:

- 1) 9
- 2) 10
- 3) 8
- 4) 11

Correct Answer: 8

QID : 261 - If $5/2 - (6/5)(x - 15/2) = -x/5$, then what is the value of x?

Options:

- 1) $-23/2$
- 2) $13/2$
- 3) $-13/2$
- 4) $23/2$

Correct Answer: $23/2$

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QID : 262 - If $a - b = 2$ and $ab = 24$, then what is the value of $a^3 - b^3$?

Options:

- 1) 280
- 2) 124
- 3) 140
- 4) 152

Correct Answer: 152

QID : 263 - Sum of twice a fraction and its reciprocal is $17/6$. What is the fraction?

Options:

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

Correct Answer: $3/4$

QID : 264 - The 3rd and 7th term of an arithmetic progression are -9 and 11 respectively. What is the 15th term?

Options:

- 1) 28
- 2) 87
- 3) 51
- 4) 17

Correct Answer: 51

QID : 265 - What is the reflection of the point (4, 7) in the line $y = -1$?

Options:

- 1) (-6, 7)
- 2) (-4, -9)
- 3) (4, -9)
- 4) (-6, -7)

Correct Answer: (4, -9)

QID : 266 - What are the co-ordinates of the centroid of a triangle, whose vertices are A(2, 5), B(-4, 0) and C(5, 4)?

Options:

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

Correct Answer: (1 , 3)

QID : 267 - Slope of the line AB is $-\frac{2}{3}$. Co-ordinates of points A and B are (x , -3) and (5 , 2) respectively. What is the value of x?

Options:

- 1) 4
- 2) -14
- 3) 12.5
- 4) -4

Correct Answer: 12.5

QID : 268 - D and E are points on side AB and AC of $\triangle ABC$. DE is parallel to BC. If $AD:DB = 2:3$, what is the ratio of area of $\triangle ADE$ and area of quadrilateral BDEC?

Options:

- 1) 4 : 21
- 2) 4 : 25
- 3) 4 : 29
- 4) 4 : 9

Correct Answer: 4 : 21

QID : 269 - What is the value of $\cot 60^\circ - \cos 45^\circ$?

Options:

- 1) $(9 - 2\sqrt{3})/9$
- 2) $(2\sqrt{6} - 1)/3$
- 3) $(1 - 2\sqrt{3})/2$
- 4) $(\sqrt{2} - \sqrt{3})/\sqrt{6}$

Correct Answer: $(\sqrt{2} - \sqrt{3})/\sqrt{6}$

QID : 270 - $\triangle PQR$ is right angled at Q. If $m\angle R = 60^\circ$, what is the length of PR (in cm), if RQ = $4\sqrt{3}$ cm?

Options:

- 1) 8
- 2) 4
- 3) $8/\sqrt{3}$

4) 8 3

Correct Answer: 8 3

QID : 271 - If $\tan = 9/40$, then $\sec = ?$

Options:

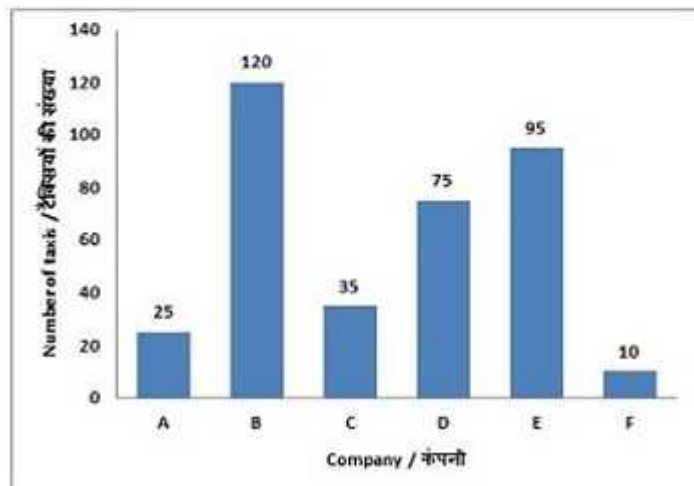
- 1) 40/41
- 2) 9/41
- 3) 41/40
- 4) 41/9

Correct Answer: 41/40

QID : 272 -

There are six taxi companies (A, B, C, D, E, F) in a certain city. The bar graph shows the number of taxis run by each of these six companies. Study the diagram and answer the following questions.

एक निश्चित शहर में छह टैक्सी कंपनियां (A, B, C, D, E, F) हैं। बार ग्राफ इन छह कंपनियों में से प्रत्येक द्वारा चलाई जाने वाली टैक्सियों की संख्या दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



Which taxi company has more taxis than A but less than D?

Options:

- 1) B
- 2) C
- 3) F
- 4) E

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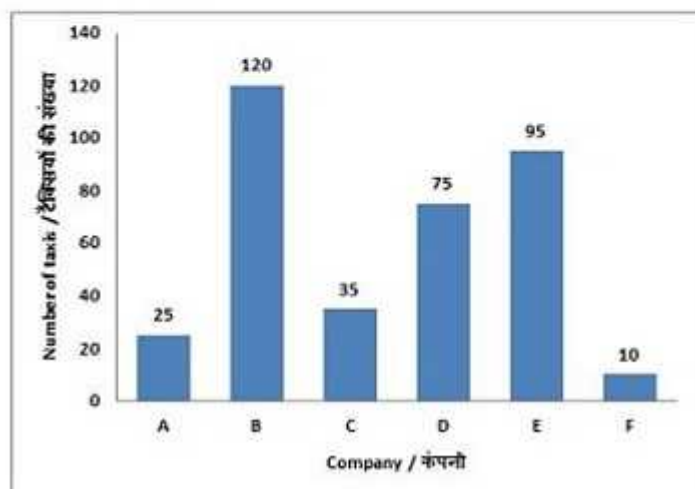
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Correct Answer: C

QID : 273 -

There are six taxi companies (A, B, C, D, E, F) in a certain city. The bar graph shows the number of taxis run by each of these six companies. Study the diagram and answer the following questions.

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If 30 taxis quit company B and joined company D then D will have how many more taxis than C?

Options:

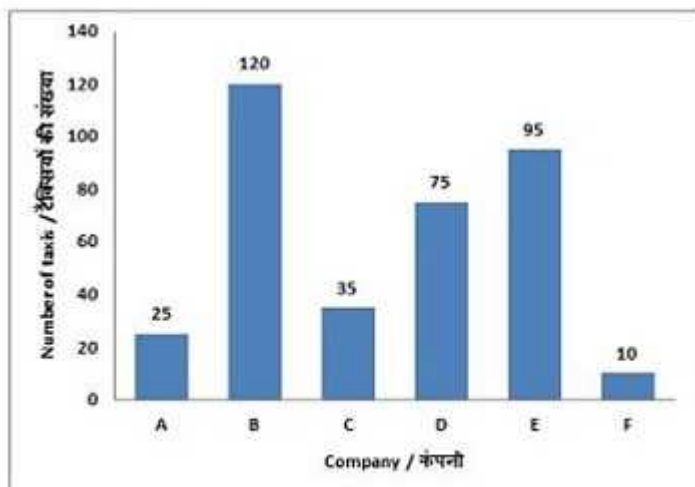
- 1) 40
- 2) 30
- 3) 110
- 4) 70

Correct Answer: 70

QID : 274 -

There are six taxi companies (A, B, C, D, E, F) in a certain city. The bar graph shows the number of taxis run by each of these six companies. Study the diagram and answer the following questions.

एक निश्चित शहर में छह टैक्सी कंपनियां (A, B, C, D, E, F) हैं। बार ग्राफ इन छह कंपनियों में से प्रत्येक द्वारा चलाई जाने वाली टैक्सियों की संख्या दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



Even if A and C decide to merge, still D will have how many more taxis (in %) than the merged A and C entity?

Options:

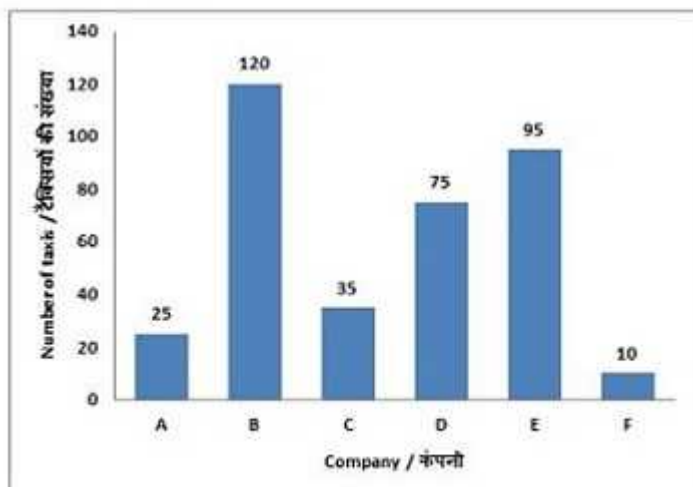
- 1) 15
- 2) 20
- 3) 10
- 4) 25

Correct Answer: 25

QID : 275 -

There are six taxi companies (A, B, C, D, E, F) in a certain city. The bar graph shows the number of taxis run by each of these six companies. Study the diagram and answer the following questions.

एक निश्चित शहर में छह टैक्सी कंपनियां (A, B, C, D, E, F) हैं। बार ग्राफ इन छह कंपनियों में से प्रत्येक द्वारा चलाई जाने वाली टैक्सियों की संख्या दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



If each taxi on an average runs 100 kms every day and if fuel cost is Rs 3 per km, then all these taxis spend how much (in Rs.) on fuel every day?

Options:

- 1) 128000
- 2) 108000
- 3) 118000
- 4) 98000

Correct Answer: 108000



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