

SSC CGL 2017 EXAM PAPER : Held on 18-AUG-2017 Shift-1
(Mathematics)

QID : 51 - What is the remainder when 6729 is divided by 35?

Options:

- 1) 11
- 2) 7
- 3) 19
- 4) 13

Correct Answer: 19

QID : 52 - A, B and C can finish a job working alone in 72, 24 and 36 days respectively. In how many days they can finish the job if they worked together?

Options:

- 1) 12
- 2) 9
- 3) 15
- 4) 18

Correct Answer: 12

QID : 53 - Area of 4 walls of a cuboid is 448 sq cm, its length is 18 cm and height is 8 cm. What is its breadth (in cm)?

Options:

- 1) 10

- 2) 9
- 3) 8
- 4) 7

Correct Answer: 10

QID : 54 - At 10% discount the selling price of an article is Rs 4500, what is the selling price (in Rs) if the discount is 27.5%?

Options:

- 1) 4000
- 2) 3625
- 3) 3500
- 4) 3125

Correct Answer: 3625

QID : 55 - What is the fourth proportional to 72, 168 and 150?

Options:

- 1) 450
- 2) 300
- 3) 350
- 4) 400

Correct Answer: 350

QID : 56 - What is the average of all numbers between 11 and 80 which are divisible by 6?

Options:

- 1) 46
- 2) 47
- 3) 44
- 4) 45

Correct Answer: 45

QID : 57 - A trader had 960 kgs of rice. He sold a part of it at 20% profit and the rest at 8% profit, so that he made a total profit of 12%. How much rice (in kgs) did he sell at 8% profit?

Options:

- 1) 460
- 2) 560
- 3) 540
- 4) 640

Correct Answer: 640

QID : 58 - If 40% of $x = y$, then $y\%$ of 40 is same as _____ of x .

Options:

- 1) 16%
- 2) 4%
- 3) 8%
- 4) 160%

Correct Answer: 16%

QID : 59 - Excluding stoppages, the speed of a bus is 72 kmph and including stoppages, it is 60 kmph. For how many minutes does the bus stop per hour?

Options:

- 1) 12
- 2) 8
- 3) 15
- 4) 10

Correct Answer: 10

QID : 60 - The simple and compound interest that can be earned in two years at the same rate is Rs 1500 and Rs 1575 respectively. What is the rate (% per annum) of interest?

Options:

- 1) 8
- 2) 10
- 3) 12
- 4) 5

Correct Answer: 10

QID : 61 - If $[7(5x/3 - 3/2)]/2 + 3/2 = 1/4$, then what is the value of x ?

Options:

- 1) $35/24$
- 2) $24/35$
- 3) $-24/35$
- 4) $-35/24$

Correct Answer: $24/35$

QID : 62 - If $a^3 + b^3 = 19$ and $ab = -6$, then what is the value of $a + b$?

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Options:

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

Correct Answer: 1

QID : 63 - Sum of four times a fraction and 6 times its reciprocal is 11. What is the fraction?

Options:

- 1) $\frac{3}{4}$
- 2) $\frac{4}{3}$
- 3) $\frac{4}{7}$
- 4) $\frac{7}{4}$

Correct Answer: $\frac{3}{4}$

QID : 64 - What is the sum of the first 12 terms of an arithmetic progression if the 3rd term is -13 and the 6th term is -4?

Options:

- 1) 67
- 2) 45
- 3) -30
- 4) -48

Correct Answer: -30

QID : 65 - What is the reflection of the point (5, 2) in the line $x = -3$?

Options:

- 1) (-11 ,2)
- 2) (-11 ,-2)
- 3) (11 ,-2)
- 4) (11 ,2)

Correct Answer: (-11 ,2)

QID : 66 - What are the co-ordinates of the centroid of a triangle, whose vertices are A(1, -5), B(4, 0) and C(-2, 2)?

Options:

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

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

Correct Answer: (1 , -1)

QID : 67 - Slope of the line AB is $-\frac{4}{3}$. Co-ordinates of points A and B are (x, -5) and (-5, 3) respectively. What is the value of x?

Options:

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

Correct Answer: 1

QID : 68 - D and E are points on side AB and AC of $\triangle ABC$. DE is parallel to BC. If $AD:DB = 2:5$ and area of $\triangle ADE$ is 8 sq cm, what is the ratio of area of $\triangle ADE$: area of quadrilateral BDEC?

Options:

- 1) (4:45)
- 2) (45:4)
- 3) (8:45)
- 4) (45:8)

Correct Answer: (4:45)

QID : 69 - What is the value of $2 \sec 45^\circ - \tan 30^\circ$?

Options:

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

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

QID : 70 - $\triangle ABC$ is right angled at B. If $m \angle A = 60^\circ$, then what is the value of $1/\sqrt{3} \operatorname{Cosec} C$?

Options:

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

Correct Answer: 2/ 3

QID : 71 - If $\operatorname{Cosec} \theta = \frac{25}{7}$, then what is the value of $\cot \theta$?

Options:

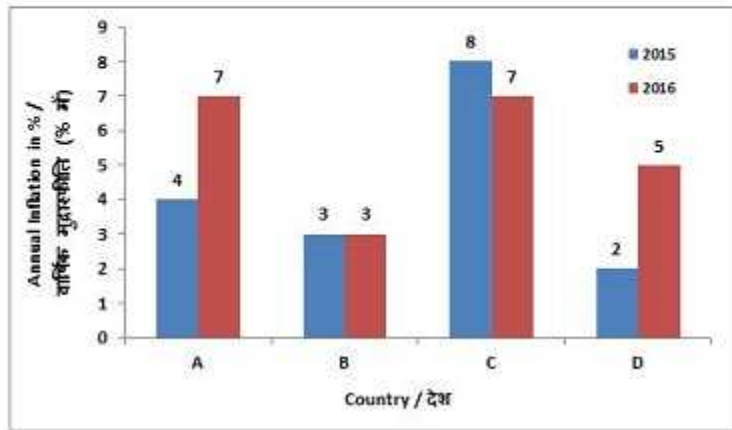
- 1) $\frac{24}{25}$
- 2) $\frac{7}{24}$
- 3) $\frac{7}{25}$
- 4) $\frac{24}{7}$

Correct Answer: 24/7

QID : 72 -

The bar graph shows annual inflation in two years 2015 and 2016 of four countries (A, B, C, D). Study the diagram and answer the following questions.

बार ग्राफ दो वर्ष 2015 और 2016 में चार देशों (A, B, C, D) की वार्षिक मुद्रास्फीति दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



In which country inflation in 2016 was lower than that of the previous year?

Options:

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

Correct Answer: C

QID : 73 -

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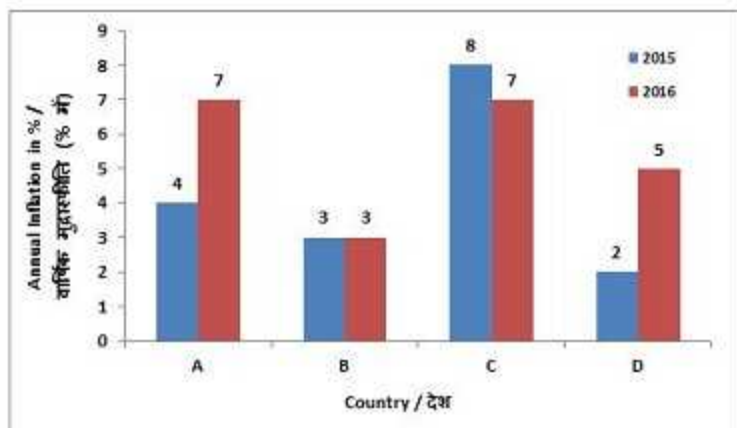
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By what percent inflation in 2016 was greater than the inflation in 2015 in country D?

Options:

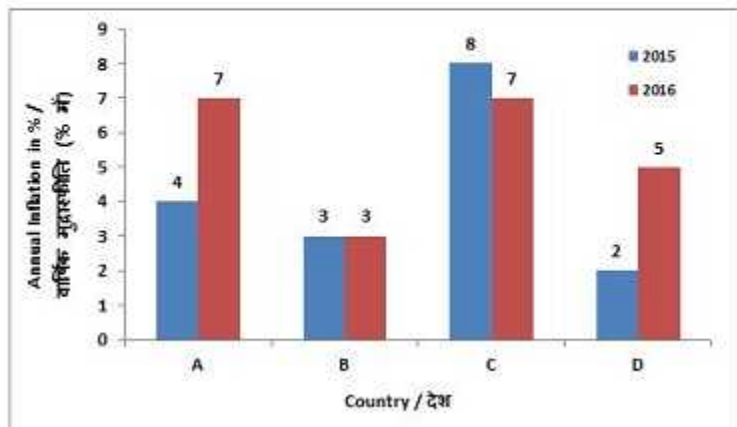
- 1) 60
- 2) 100
- 3) 150
- 4) 120

Correct Answer: 150

QID : 74 -

The bar graph shows annual inflation in two years 2015 and 2016 of four countries (A, B, C, D). Study the diagram and answer the following questions.

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In the year 2015, what is the ratio of inflation in country C to country A?

Options:

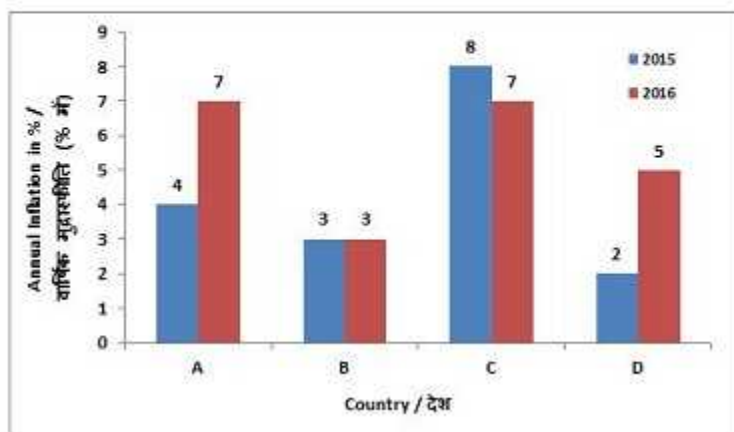
- 1) 1 : 2
- 2) 2 : 3
- 3) 3 : 2
- 4) 2 : 1

Correct Answer: 2 : 1

QID : 75 -

The bar graph shows annual inflation in two years 2015 and 2016 of four countries (A, B, C, D). Study the diagram and answer the following questions.

बार ग्राफ दो वर्ष 2015 और 2016 में चार देशों (A, B, C, D) की वार्षिक मुद्रास्फीति दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



If inflation is measured as increase in price index and the price index was 200 in the beginning of 2015 in country D then what is the index at the end of 2016?

Options:

- 1) 207
- 2) 207.2
- 3) 210
- 4) 214.2

Correct Answer: 214.2



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