

SSC CGL 2017 EXAM PAPER : Held on 19-AUG-2017 Shift-1
(Mathematics)

QID : 51 - What is the LCM of 64 and 56?

Options:

- 1) 448
- 2) 488
- 3) 484
- 4) 408

Correct Answer: 448

QID : 52 - A and B together do a job in 6.75 days and A could do the job in 9 days if he worked alone. How many days would B take to do the job if he worked alone?

Options:

- 1) 27
- 2) 18
- 3) 24
- 4) 21

Correct Answer: 27

QID : 53 - What is the diameter (in cm) of a sphere of surface area 154 sq cm?

Options:

- 1) 3.5
- 2) 14
- 3) 10.5
- 4) 7

Correct Answer: 7

QID : 54 - A Rs 100 shirt is offered at 10% discount and a Rs 300 pair of trousers at 20% discount. If Pritam bought 1 shirt and 3 pairs of trousers, what is the effective discount (in %) he got?

Options:

- 1) 19
- 2) 18
- 3) 17
- 4) 16

Correct Answer: 19

QID : 55 - A's wealth is $\frac{5}{7}$ times of B's and C's is $\frac{10}{7}$ times of B's. What is the ratio of C's wealth to A's?

Options:

- 1) (49:100)
- 2) (1:2)
- 3) (2:1)
- 4) (100:49)

Correct Answer: (2:1)

QID : 56 - The average of four consecutive odd numbers is 64. What is the value of largest number?

Options:

- 1) 65
- 2) 69
- 3) 71
- 4) 67

Correct Answer: 67

QID : 57 - If a wholesaler, sells a box of chocolates at Rs 960 he gains 20%. Now if he decides to sell it at Rs 1120, what is his profit percentage?

Options:

- 1) 30
- 2) 40
- 3) 50
- 4) 60

Correct Answer: 40

QID : 58 - A man wills 25% of his wealth to charity and rest to his family. What percent of the wealth willed to charity does the family get?

Options:

- 1) 200
- 2) 33.3
- 3) 300
- 4) 25

Correct Answer: 300

QID : 59 - If a person walks at 15 km/hr instead of 9 km/hr, he would have walked 3 km more in the same time. What is the actual distance (in kms) travelled by him?

Options:

- 1) 5.5
- 2) 6.5
- 3) 4.5
- 4) 7.5

Correct Answer: 4.5

QID : 60 - Ganesh invested an amount of Rs x in a fixed deposit scheme offering 5% per annum for 1st year and 15% per annum for 2nd year and received an amount of Rs 9660 after two years. What is the value of x (in Rs)?

Options:

- 1) 9000
- 2) 8000
- 3) 8500
- 4) 8200

Correct Answer: 8000

QID : 61 - If $[4(2x/5 - 3/2)]/3 + 7/5 = 37/5$, then what is the value of x?

Options:

- 1) -15
- 2) 7/5

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- 3) 15
- 4) $-7/5$

Correct Answer: 15

QID : 62 - If $a - b = 4$ and $ab = -3$, then what is the value of $a^3 - b^3$?

Options:

- 1) 21
- 2) 28
- 3) 23
- 4) -20

Correct Answer: 28

QID : 63 - Sum of twice a fraction and 3 times its reciprocal is $29/3$. What is the fraction?

Options:

- 1) $2/9$
- 2) $5/4$
- 3) $4/5$
- 4) $9/2$

Correct Answer: $9/2$

QID : 64 - The 7th and 12th term of an arithmetic progression are -15 and 5 respectively. What is the 16th term?

Options:

- 1) 25
- 2) 29
- 3) 21
- 4) 33

Correct Answer: 21

QID : 65 - What is the reflection of the point (4, -3) in the line $y = -2$?

Options:

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

Correct Answer: (4, -1)

QID : 66 - The distance between the points (2, 7) and (k, -5) is 13. What is the value of k?

Options:

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

Correct Answer: 7

QID : 67 - What is the equation of the line perpendicular to the line $5x + 3y = 6$ and having Y-intercept -3?

Options:

- 1) $3x - 5y = 15$
- 2) $3x + 5y = 15$
- 3) $3x - 5y = -15$
- 4) $3x + 5y = -15$

Correct Answer: $3x - 5y = 15$

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 cm sq, what is the area (in sq cm) of quadrilateral BDEC?

Options:

- 1) 98
- 2) 94
- 3) 90
- 4) 86

Correct Answer: 90

QID : 69 - What is the value of $\sin 30^\circ - 2 \cos 30^\circ$?

Options:

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

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

QID : 70 - $\triangle XYZ$ is right angled at Y. If $m \angle Z = 60^\circ$. What is the length (in cm) of YZ, if ZX = $9\sqrt{3}$ cm?

Options:

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

Correct Answer: $9/3/2$

QID : 71 - If $\sec = 13/12$, then what is the value of \sin ?

Options:

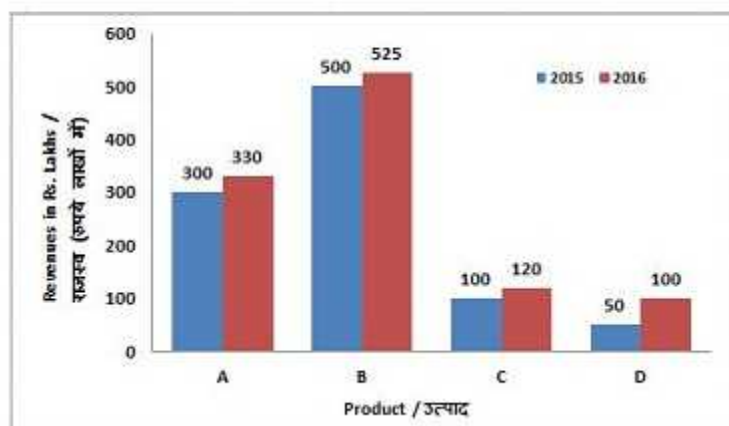
- 1) $5/13$
- 2) $12/5$
- 3) $12/13$
- 4) $5/12$

Correct Answer: $5/13$

QID : 72 -

The bar graph shows revenues in rupees lakhs from selling four different products (A, B, C, D) by a certain company. Study the diagram and answer the following questions.

बार ग्राफ एक निश्चित कंपनी को चार भिन्न-भिन्न उत्पादों (A, B, C, D) की बिक्री से हुई राजस्व (रुपये लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



Revenues from which product were the least in both the years 2015 and 2016?

Options:

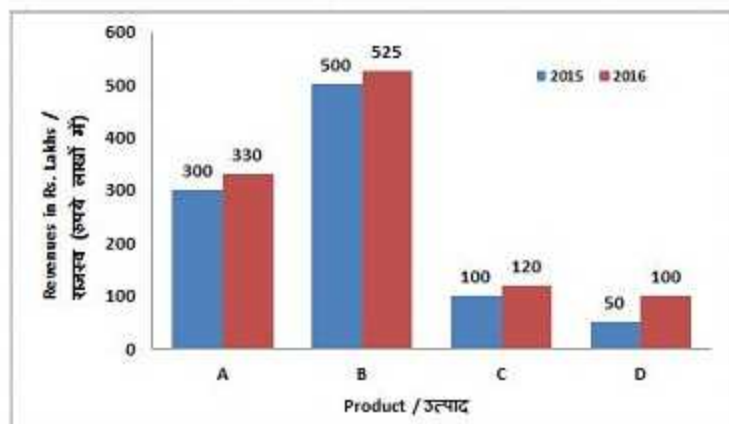
- 1) D
- 2) A
- 3) B
- 4) C

Correct Answer: D

QID : 73 -

The bar graph shows revenues in rupees lakhs from selling four different products (A, B, C, D) by a certain company. Study the diagram and answer the following questions.

बार ग्राफ एक निश्चित कंपनी को चार भिन्न-भिन्न उत्पादों (A, B, C, D) की बिक्री से हुई राजस्व (रुपये लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



By what value (in %) the revenue from sale of product B in 2016 was greater than that of 2015?

Options:

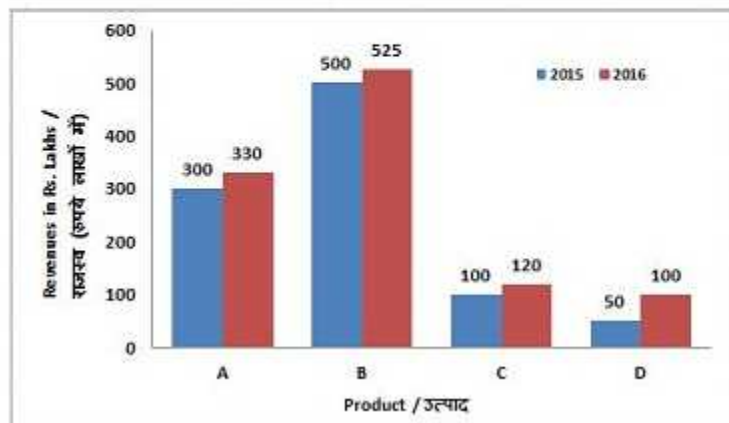
- 1) 0.5
- 2) 5
- 3) 25
- 4) 2

Correct Answer: 5

QID : 74 -

The bar graph shows revenues in rupees lakhs from selling four different products (A, B, C, D) by a certain company. Study the diagram and answer the following questions.

बार ग्राफ एक निश्चित कंपनी को चार भिन्न-भिन्न उत्पादों (A, B, C, D) की बिक्री से हुई राजस्व (रुपये लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



By what amount (in Rs crore) the total revenue by selling all the four products in 2016 is greater than that of 2015 ?

Options:

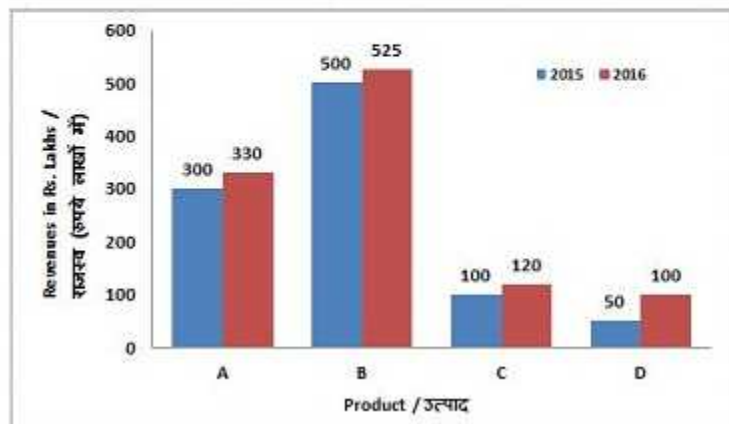
- 1) 1
- 2) 0.75
- 3) 1.5
- 4) 1.25

Correct Answer: 1.25

QID : 75 -

The bar graph shows revenues in rupees lakhs from selling four different products (A, B, C, D) by a certain company. Study the diagram and answer the following questions.

बार ग्राफ एक निश्चित कंपनी को चार भिन्न-भिन्न उत्पादों (A, B, C, D) की बिक्री से हुई राजस्व (रुपये लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।



If the cost of producing and selling the four products was Rs 10 crores each in 2015 and 2016 then what is the cumulative profit (in Rs Lakhs) earned in the years 2015 and 2016?

Options:

- 1) 75
- 2) 25
- 3) 50
- 4) 100

Correct Answer: 25



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