SSC CGL 2017 EXAM PAPER : Held on 17-AUG-2017 Shift-1 (Mathematics)

QID : 51 - Select the correct option:

Convert binary 1101111 to decimal.

Options:

1) 111
2) 101
3) 110
4) 100

Correct Answer: 111

QID : 52 - A can finish a work in 18 days and B in 36 days. If they work on it together for 9 days, then what percent of work is left?

Options:

1) 33.3
2) 20
3) 75
4) 25

Correct Answer: 25

QID : 53 - The diagonal of a square is 12 cm what is the length (in cm) of its side?

Options:

1) 6 2
2) 12 2
3) 6
4) 9

Correct Answer: 6 2

QID : 54 - If on a Sale there is 30% discount on the marked price of Rs 2500, but the sale is done at Rs 1400 only. What additional discount (in %) did the customer get?

Options:

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

Correct Answer: 20

QID : 55 - What is the third proportional to 10 and 25?

Options:

1) 125
2) 150
3) 62.5
4) 225

Correct Answer: 62.5

QID : 56 - In a class of 50 students there are 27 boys. The average weight of these boys is 72 Kg and average weight of the full class is 55.44 kgs. What is the average weight (in kgs) of the girls of the class?

Options:

1) 42
2) 48
3) 30
4) 36

Correct Answer: 36

QID : 57 - If a saree is sold for Rs 1900 the seller will face 5% loss, at what price (in Rs) should he sell the saree to gain 15% profit?

Options:

1) 2200
2) 2400
3) 2500
4) 2300

Correct Answer: 2300

QID : 58 - Pranita got 30 marks more in Math than what she got in Science. Her Math marks are 60% of the sum of her Math and Science marks. What are her Science marks?

Options:

1) 90
2) 150
3) 120
4) 60

Correct Answer: 60

QID : 59 - To travel 432 km, an Express train takes 1 hour more than Duronto. If however, the speed of the Express train is increased by 50%, it takes 2 hours less than Duronto. What is the speed (in km/hr) of Duronto train?

Options:

1) 60
2) 54
3) 48
4) 72

Correct Answer: 54

QID : 60 - What is the difference (in Rs) between the compound interests on Rs. 4000 for 1 year at 12% per annum compounded yearly and half-yearly?

Options:

1) 14.4
2) 12.4
3) 10.4
4) 16.4

Correct Answer: 14.4

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

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

Correct Answer: -1

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

Options:

1) 21
2) 17
3) 28
4) 31

Correct Answer: 28

QID : 63 - The sum of a fraction and 7 times its reciprocal is 11/2. What is the fraction?

Options:

1) 7/2
2) 2/7
3) 3/4
4) 4/3

Correct Answer: 7/2

QID : 64 - The 3rd and 9th term of an arithmetic progression are -8 and 10 respectively. What is the 16th term?

Options:

1) 34
2) 28
3) 25
4) 31

Correct Answer: 31

QID : 65 - What is the reflection of the point (1 , 2) in the line y = 3?

Options:

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

Correct Answer: (1, 4)

QID : 66 - Point A (2, 1) divides segment BC in the ratio 2:3. Co-ordinates of B are (1, -3) and C are (4, y). What is the value of y?

Options:

1) 8
2) -7
3) -8
4) 7

Correct Answer: 7

QID : 67 - At what point does the line 2x + 5y = -6 cuts the X-axis?

Options:

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

Correct Answer: (-3, 0)

QID : 68 -   ABC is right angled at B. BD is an altitude. AD = 9 cm and DC = 16 cm. What is the value of BD (in cm)?

Options:

1) 6
2) 18
3) 21
4) 12

Correct Answer: 12

QID : 69 - What is the value of Tan 45° + 4/ 3 Sec 60°?

Options:

1) (3 + 8)/ 3
2) (3 + 8)/3
3) (3 - 8)/ 3
4) (3 - 8)/3

Correct Answer: (3 + 8)/ 3

QID : 70 -   DEF is right angled at E. If m ∠D = 30°. What is the length (in cm) of DE, if EF = 2 3 cm?

Options:

1) 3
2) 4
3) 6
4) 2

Correct Answer: 6

QID : 71 - If Sin = 20/29, then what is the value of Cos ?
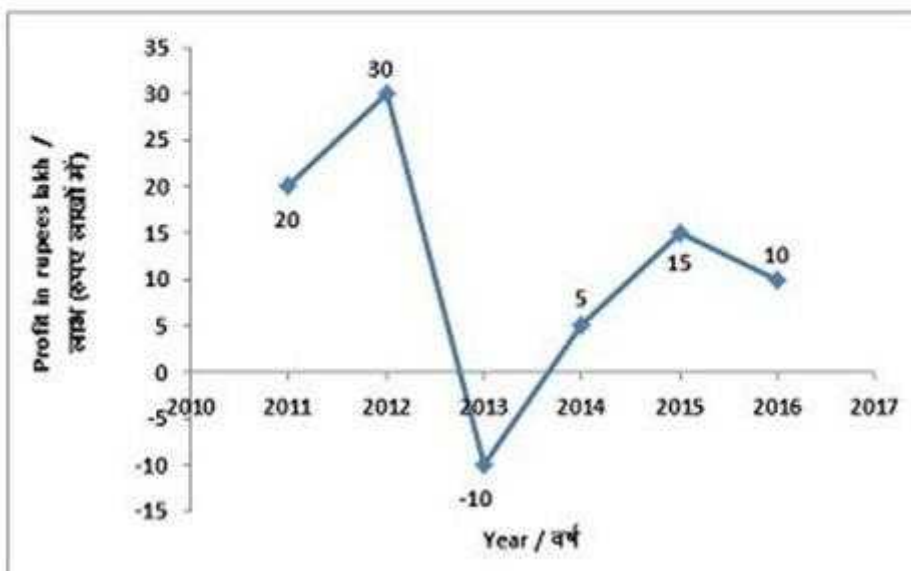
Options:

1) 29/21
2) 21/29
3) 21/20
4) 20/29

Correct Answer: 21/29

QID : 72 -

The line graph shows annual profits in rupees lakhs of a certain company from 2011 to 2016. Study the diagram and answer the following questions.

लाइन ग्राफ वर्ष 2011 से लेकर 2016 तक एक निश्चित कंपनी का वार्षिक लाभ (रूपए लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

The company reported a loss in which year?

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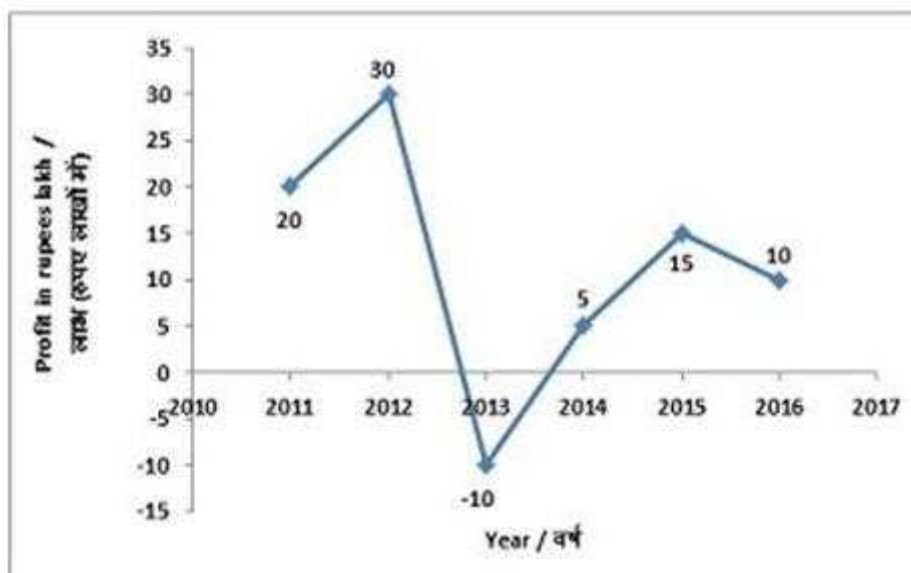
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Options:

1) 2013
2) 2016
3) 2012
4) 2014

Correct Answer: 2013

QID : 73 -

The line graph shows annual profits in rupees lakhs of a certain company from 2011 to 2016. Study the diagram and answer the following questions.

लाइन ग्राफ वर्ष 2011 से लेकर 2016 तक एक निश्चित कंपनी का वार्षिक लाभ (रुपए लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

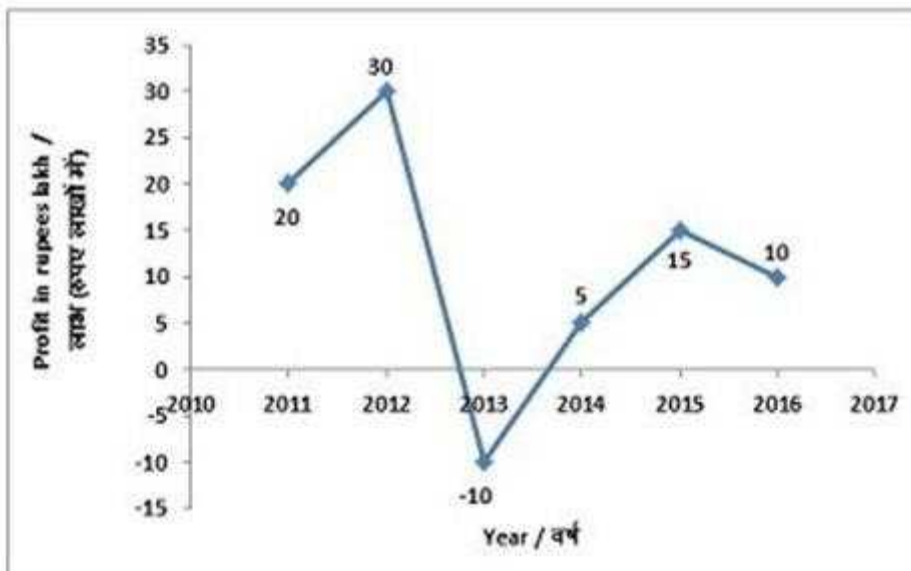**What is the cumulative profits (in lakh Rs) earned by the company in the given six years?**

Options:

1) 80
2) 70
3) 90
4) 100

Correct Answer: 70

QID : 74 -

The line graph shows annual profits in rupees lakhs of a certain company from 2011 to 2016. Study the diagram and answer the following questions.

लाइन ग्राफ वर्ष 2011 से लेकर 2016 तक एक निश्चित कंपनी का वार्षिक लाभ (रूपए लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

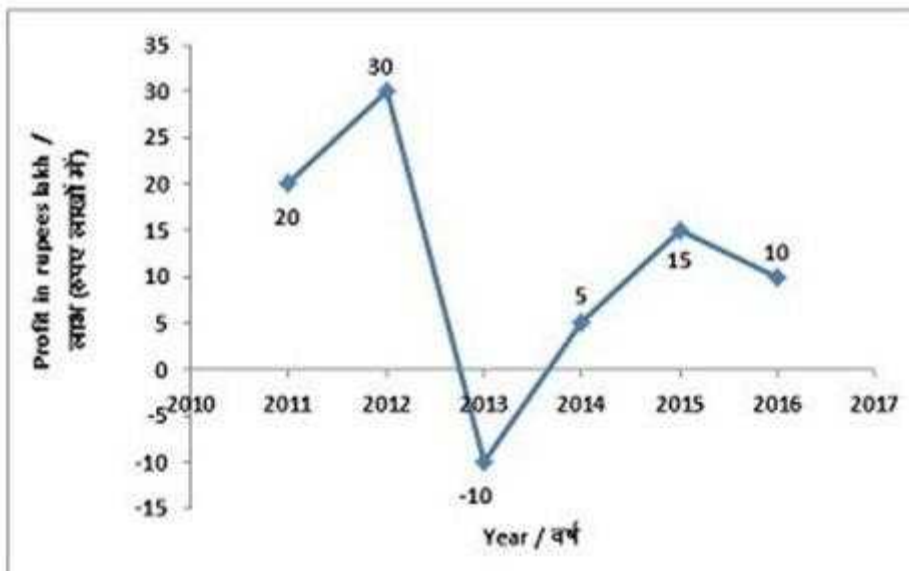**By what value profit in 2012 was more (in %) than the profit of 2011?**

Options:

1) 10
2) 33.33
3) 50
4) 40

Correct Answer: 50

QID : 75 -

The line graph shows annual profits in rupees lakhs of a certain company from 2011 to 2016. Study the diagram and answer the following questions.

लाइन ग्राफ वर्ष 2011 से लेकर 2016 तक एक निश्चित कंपनी का वार्षिक लाभ (रूपए लाखों में) दर्शाता है। इस आरेख का अध्ययन करें और निम्नलिखित प्रश्नों का उत्तर दें।

If the profits are added to the company's reserves and the reserves stood at Rs 150 lakhs at the end of 2015, what were the reserves (in Rs. lakhs) in the beginning of 2012?

Options:

1) 130
2) 90
3) 110
4) 40

Correct Answer: 110

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