

SSC CGL 2017 EXAM PAPER : Held on 11-AUG-2017 Shift-1 (Mathematics)

QID : 51 - A fraction becomes $\frac{6}{5}$ when 5 is added to its numerator and becomes $\frac{1}{2}$ when 4 is added to its denominator. What will be the value of the fraction?

Options:

- 1) $\frac{8}{9}$
- 2) $\frac{7}{10}$
- 3) $\frac{7}{8}$
- 4) $\frac{6}{11}$

Correct Answer: $\frac{7}{10}$

QID : 52 - Amit can complete a work in 25 days and Punit can complete the same work in 20 days. Punit alone worked at it for 10 days and then left the work. In how many days will Amit alone complete the remaining work?

Options:

- 1)
 $11\frac{1}{2}$
- 2)

$$12\frac{1}{2}$$

3)

$$13\frac{1}{2}$$

4)

$$14\frac{3}{2}$$

Correct Answer:

QID : 53 - The measure of the four successive angles of a quadrilateral are in the ratio 7 : 11 : 7 : 11. The quadrilateral is a _____.

Options:

- 1) trapezium
- 2) rectangle
- 3) parallelogram
- 4) square

Correct Answer: parallelogram

QID : 54 - What is the discount percentage offered on a book having marked price Rs 2150 being sold at Rs 1892?

Options:

- 1) 12
- 2) 13
- 3) 14
- 4) 16

Correct Answer: 12

QID : 55 - Rs 60500 is divided among A, B and C such that A receives $\frac{2}{9}$ as much as B and C together and B receives $\frac{3}{7}$ of as much as A and C together. What is the share of C (in Rs)?

Options:

- 1) 29850
- 2) 30120
- 3) 31350
- 4) 37250

Correct Answer: 31350

QID : 56 - The average age of a class of 6 girls is x years. Four new girls having ages $x - 2$, $x + 2$, $x + 4$ and $x + 6$ joins the class. What is the new average age (in years) of the class?

Options:

- 1) $x + 1$
- 2) $x + 2$
- 3) $2.5x$
- 4) $x + 2.5$

Correct Answer: $x + 1$

QID : 57 - A dealer sells two machines at Rs 12000 each. On one it gains 32% and on the other it loses 32%. What is its profit/loss percentage in the whole transaction?

Options:

- 1) No gain and no loss
- 2) 1% loss
- 3) 18% profit
- 4) 10.24% loss

Correct Answer: 10.24% loss

QID : 58 - How much water (in litres) must be added to 80 litres solution of milk and water containing 10% milk, so that it becomes a 5% milk solution?

Options:

- 1) 10
- 2) 20
- 3) 40
- 4) 80

Correct Answer: 80

QID : 59 - A bus travels $\frac{2}{5}$ of a total journey at its usual speed. The remaining distance was covered by bus at $\frac{6}{7}$ of its usual speed. Due to slow speed it reaches its destination 50 minutes late. If the total distance is 200 kms, then what is the usual speed (in km/hr) of bus?

Options:

- 1) 20.57
- 2) 24
- 3) 28
- 4) 26.52

Correct Answer: 24

QID : 60 - For an amount, simple interest at the rate of interest of 12% per annum for 6 years is Rs 25920. What will be the compound interest (in Rs) on same amount at the rate of interest of 8% per annum compounding annually for 2 years?

Options:

- 1) 4326.3
- 2) 5563.4

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3) 5888.6

4) 5990.4

Correct Answer: 5990.4

QID : 61 - If α and β are roots of the equation $3x^2 - 13x + 14 = 0$, then what is the value of $(\frac{\alpha}{\beta}) + (\frac{\beta}{\alpha})$?

Options:

1) 65/28

2) 53/14

3) 9

4) 85/42

Correct Answer: 85/42

QID : 62 - If $a + b + c = 9$ and $ab + bc + ca = 18$, then what is the value of $a^3 + b^3 + c^3 - 3abc$?

Options:

1) 189

2) 243

3) 361

4) 486

Correct Answer: 243

QID : 63 - If $(x/y) + (y/x) = 1$, then what is the value of $x^3 + y^3$?

Options:

1) - 1

2) 0

3) 1

4) 3

Correct Answer: 0

QID : 64 - If $5^x = 30^{-y} = 6^z$, then what is the value of $(xy + yz + zx)/xyz$?

options:

1) 0

2) 1

3) 2

4) 3

Correct Answer: 0

QID : 65 - The internal bisectors of $\angle Q$ and $\angle R$ of triangle PQR meet at O. If $\angle P = 70^\circ$, then what is the measure of $\angle QOR$ (in degrees)?

Options:

1) 110

2) 115

3) 125

4) 135

Correct Answer: 125

QID : 66 - If the areas of two similar triangle are in the ratio 5 : 7, then what is the ratio of the corresponding sides of these two triangles?

Options:

1) 5 : 7

2) 25 : 49

3) 5 : 7

4) 125 : 343

Correct Answer: 5 : 7

QID : 67 - ABCD is an isosceles trapezium such that $AD \parallel BC$, $AB = 5$ cm, $AD = 8$ cm and $BC = 14$ cm. What is the area (in cm^2) of trapezium?

Options:

1) 36

2) 44

3) 88

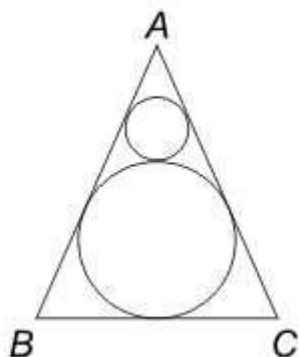
4) 144

Correct Answer: 44

QID : 68 -

In the given figure, ABC is an equilateral triangle. If the area of bigger circle is 1386 cm^2 , then what is the area (in cm^2) of smaller circle?

दी गई आकृति में, ABC एक समबाहु त्रिभुज है। यदि बड़े वृत्त का क्षेत्रफल 1386 से.मी.^2 है, तो छोटे वृत्त का क्षेत्रफल (से.मी.² में) क्या है?



Options:

- 1) 144
- 2) 154
- 3) 288
- 4) 462

Correct Answer: 154

QID : 69 - What is the simplified value of $[(\tan^2 - \sin^2) / \tan^2 \sin^2]$?

Options:

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

Correct Answer: 1

QID : 70 - If $\sec(3x - 20^\circ) = \operatorname{cosec}(3y + 20^\circ)$, then what is the value of $\tan(x + y)$?

Options:

- 1) 1
- 2) 3

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3) $1/3$

4) $2/3$

Correct Answer: $1/3$

QID : 71 - If $\cot A = n/(n + 1)$ and $\cot B = 1/(2n + 1)$, then what is the value of $\cot (A + B)$?

Options:

1) -1

2) 0

3) 1

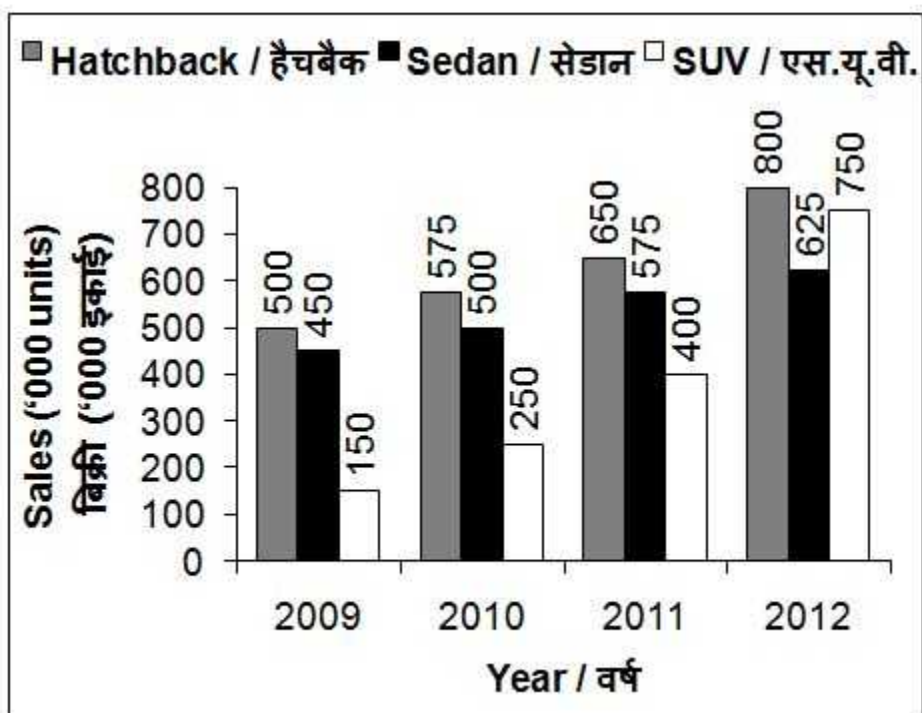
4) 2

Correct Answer: -1

QID : 72 -

The bar chart given below shows the sales of 3 types of cars in the Indian automotive industry over 4 years. All the sales figures have been shown in terms of '000 units.

नीचे दिए गए दण्ड चित्र में भारतीय मोटर उद्योग के 4 वर्षों में 3 प्रकार की कारों की बिक्री को दर्शाया गया है। बिक्री के सभी आँकड़ों को '000 इकाई के रूप में दर्शाया गया है।



Which of the following type of car has the highest increase in sales from 2009 to 2012?

Options:

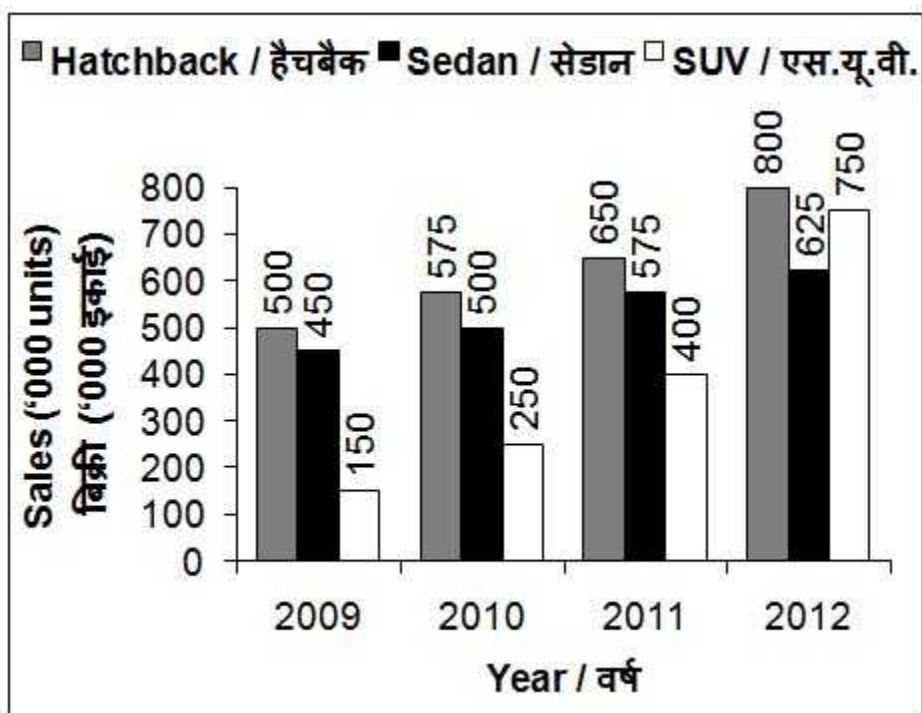
- 1) Hatchback
- 2) Both SUV and Hatchback
- 3) SUV
- 4) Sedan

Correct Answer: SUV

QID : 73 -

The bar chart given below shows the sales of 3 types of cars in the Indian automotive industry over 4 years. All the sales figures have been shown in terms of '000 units.

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What is the simple annual growth rate (in %) in the sales of SUV from 2009 to 2012?

options:

- 1) 90
- 2) 100
- 3) 133.33
- 4) 150

Correct Answer: 133.33

QID : 74 -

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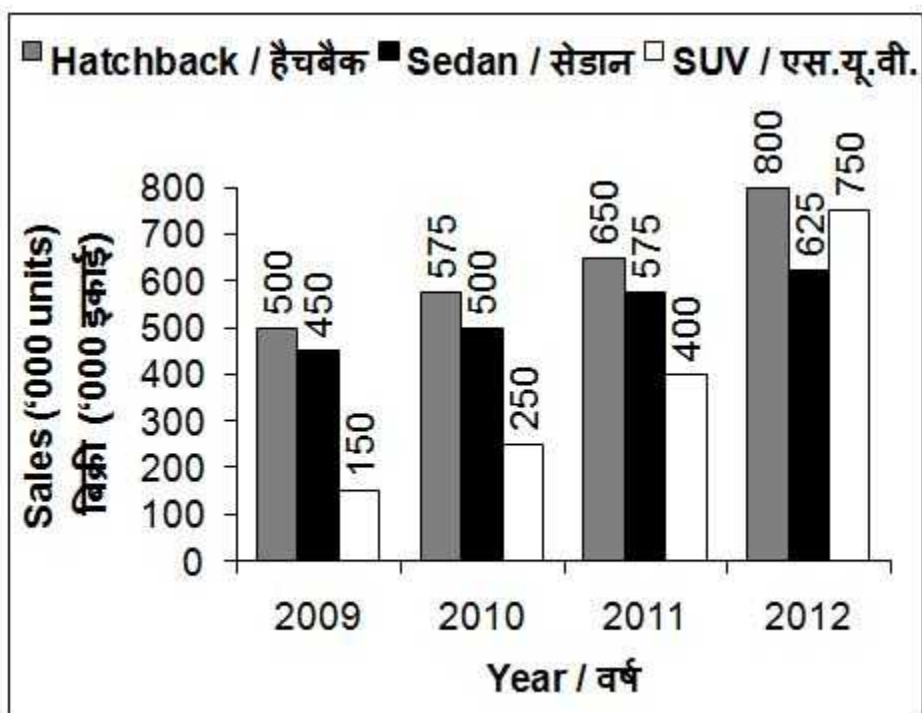
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What is the respective ratio of total sales of Sedan and total sales of SUV over the period of 4 years ?

Options:

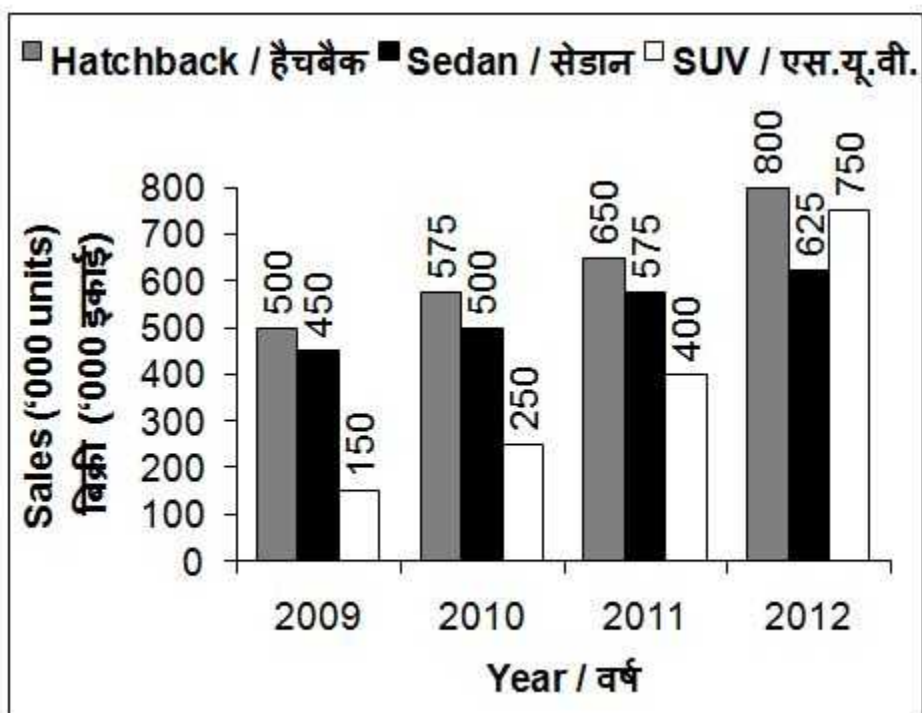
- 1) 23 : 31
- 2) 29 : 39
- 3) 43 : 31
- 4) 76 : 47

Correct Answer:43 : 31

QID : 75 -

The bar chart given below shows the sales of 3 types of cars in the Indian automotive industry over 4 years. All the sales figures have been shown in terms of '000 units.

नीचे दिए गए दण्ड चित्र में भारतीय मोटर उद्योग के 4 वर्षों में 3 प्रकार की कारों की बिक्री को दर्शाया गया है। बिक्री के सभी आँकड़ों को '000 इकाई के रूप में दर्शाया गया है।



If all the 3 categories increase by same rate in 2013 over 2012 as they did in 2012 over 2011, then what will be the total approximate sales (in '000 units) of all the 3 categories taken together in year 2013 ?

options:

- 1) 2152
- 2) 2345
- 3) 3069
- 4) 3568

Correct Answer: 3069



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