Notations:
1. Options shown in green color and with ✔ icon are correct.
2. Options shown in red color and with ✗ icon are incorrect.

**Question Paper Name:** Arithmetic
**Subject Name:** Arithmetic
**Creation Date:** 2020-03-20 12:50:07
**Duration:** 150
**Total Marks:** 150
**Display Marks:** Yes
**Share Answer Key With Delivery Engine:** No
**Actual Answer Key:** Yes
**Calculator:** Scientific
**Magnifying Glass Required?** No
**Ruler Required?** No
**Eraser Required?** No
**Scratch Pad Required?** No
**Rough Sketch/Notepad Required?** No
**Protractor Required?** No
**Show Watermark on Console?** Yes
**Highlighter:** No
**Auto Save on Console?** Yes

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**Arithmetic**

**Group Number:** 1
**Group Id:** 4697502
**Is this Group for Examiner?** No

---

**Arithmetic**

**Section Id:** 4697502
**Section Number:** 1
**Section type:** Online
**Display Number Panel:** Yes
**Group All Questions:** Yes
**Mark As Answered Required?** Yes
**Sub-Section Number:** 1
**Sub-Section Id:** 4697503
**Question Shuffling Allowed:** Yes

**Question Number:** 1
**Question Id:** 469750901
**Question Type:** MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

\[9 + \sqrt{7}\] is a/an:

\[9 + \sqrt{7}\] is a

Options:
rational number

1. \(\frac{3}{4}\)

irrational number

2. \(\sqrt{2}\)

integer

3. \(\pi\)

natural number

4. \(\sqrt{3}\)

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**Question Number : 2**
**Question Id : 469750902**
**Question Type : MCQ**
**Option Shuffling : Yes**
**Display Question Number : Yes**
**Is Question Mandatory : No**
**Single Line Question Option : No**
**Negative Marks Display Text : 1/3**
**Option Orientation : Vertical**
**Correct Marks : 1**
**Wrong Marks : 0.33**

The prime factors of 5005 are:

5005 \(= 5 \times 7 \times 11 \times 13\)

**Options :**

1. \(3 \times 5 \times 7 \times 13\)

2. \(5 \times 7 \times 9 \times 11\)

3. \(5 \times 9 \times 7 \times 13\)

4. \(5 \times 7 \times 11 \times 13\)

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**Question Number : 3**
**Question Id : 469750903**
**Question Type : MCQ**
**Option Shuffling : Yes**
**Display Question Number : Yes**
**Is Question Mandatory : No**
**Single Line Question Option : No**
**Negative Marks Display Text : 1/3**
**Option Orientation : Vertical**
**Correct Marks : 1**
**Wrong Marks : 0.33**

Is \(\frac{17}{8}\) a terminating or non-terminating decimal?

\(\frac{17}{8}\) \(\text{తిప్పించిన ఎకాసంపాదన యున్న డిస్కర్పోటు కాదు?}\)

**Options :**

- Terminating

1. \(\text{తిప్పించిన ఎకాసంపాదన యున్న డిస్కర్పోటు కాదు}\)

- Non-Terminating

2. \(\text{తిప్పించిన ఎకాసంపాదన యున్న డిస్కర్పోటు కాదు}\)

- Integer

3. \(\text{తిప్పించిన ఎకాసంపాదన యున్న డిస్కర్పోటు కాదు}\)

- Natural number

4. \(\text{తిప్పించిన ఎకాసంపాదన యున్న డిస్కర్పోటు కాదు}\)
Question Number : 4 Question Id: 469750904 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The HCF of 720 and 310 by Euclid's Lemma, is:

.options:
1. ✅ 10
2. ✗ 20
3. ✗ 30
4. ✗ 40

Question Number : 5 Question Id: 469750905 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

| −20 | = ?

.Options:
1. ✅ 20
2. ✗ 21
3. ✗ −20
4. ✗ −21

Question Number : 6 Question Id: 469750906 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

\[ | \frac{\text{13} - 7}{30} | = \text{equal to:} \]

\[ | \frac{\text{13} - 7}{30} | \text{ మాట్లాడుతుంది:} \]

.Options:
1. ✗ 4
2. ✗ 5
3. ✗ 3
4. ✗ 6
Question Number : 7  Question Id : 469750907  Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1  Wrong Marks : 0.33

If \( x > 0 \) then \(|x|\) is equal to:

\[ x > 0 \rightarrow x = |x| \]

Options:

1. \( -x \)
2. \( x + 1 \)
3. \( x - 1 \)
4. \( x \)

Question Number : 8  Question Id : 469750908  Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1  Wrong Marks : 0.33

The simplest form of \( \sqrt[5]{416} \) is

\[ \sqrt[5]{416} \Rightarrow \text{Simplify}\]

Options:

1. \( 2\sqrt[5]{13} \)
2. \( 3\sqrt[5]{13} \)
3. \( \sqrt[5]{14} \)
4. \( \frac{2\sqrt[5]{14}}{} \)

Question Number : 9  Question Id : 469750909  Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1  Wrong Marks : 0.33

\[ \frac{1}{x^{a-b+1}} + \frac{1}{x^{b-a+1}} \]

is equal to:

\[ \frac{1}{x^{a-b+1}} + \frac{1}{x^{b-a+1}} \Rightarrow \text{Simplify}\]

Options:

1. \( \sqrt[5]{13} \)
2. \( \frac{2\sqrt[5]{14}}{} \)
3. \( \frac{a-b}{a+b} \)

Question Number : 10 Question Id : 469750910 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( a^x = b^y = c^z \) and \( abc = 1 \), then \( xy + yz + zx \) is equal to:

\[ a^x = b^y = c^z \Rightarrow abc = 1 \Rightarrow xy + yz + zx \text{ is equal to:} \]

Options :
1. ✓ 0
2. ✗ 1
3. ✗ 2xyz
4. ✗ \( x + y + z \)

Question Number : 11 Question Id : 469750911 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( x + \frac{1}{x} = 5 \), then \( x^2 + \frac{1}{x^2} \) is equal to:

\[ x + \frac{1}{x} = 5 \Rightarrow x^2 + \frac{1}{x^2} \text{ is equal to:} \]

Options :
1. ✗ 21
2. ✗ 22
3. ✓ 23
4. ✗ 24

Question Number : 12 Question Id : 469750912 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( a^x = a, b^y = c, c^z = a \), then \( xyz \) is equal to:

\[ a^x = a, b^y = c, c^z = a \Rightarrow xyz \text{ is equal to:} \]

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options :
1. \( abc \)
2. \( a + b + c \)
3. \( ab + bc + ca \)
4. 1

Question Number : 13 Question Id : 469750913 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Number: 14 Question Id: 469750914 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The LCM of the numbers 96 and 404 is

96 404 (L.C.M);

Options:
1. ✗ 7676
2. ✗ 8686
3. ✔️ 9696
4. ✔️ 6666
If $a^x = bc$, $b^y = ca$, $c^z = ab$, then $xyz$ is equal to:

$a^x = bc$, $b^y = ca$, $c^z = ab$ అనాధిపత్తు కృషి చేశానితుంది, అంటే $xyz$ ఎంత్కాలా సమానం?

Options:
1. $\therefore xyz + 2$
2. $\therefore x + y + z$
3. $\therefore x + y + z + 2$
4. $\therefore x + y + z + 1$

Question Number : 17 Question Id : 469750917 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average of 10 observations is 6, later it was observed that one observation 9 is wrongly written as 12, the correct average of observations is:

10 అంటెలకు సంఖ్య 6, మరొక అంటెలకు 9 అందానే 12 ఎలా రాసాయ పుప్పెక్షించాయి, సంఖ్యాల సరసంఖ్య ఎంత్కాలా?

Options:
1. $\therefore 6.7$
2. $\therefore 7.7$
3. $\therefore 8.7$
4. $\therefore 5.7$

Question Number : 18 Question Id : 469750918 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average of 7 numbers is 31. If one of the number is excluded, the average becomes 30 then the excluded number is:

7 సంఖ్యల సంఖ్య 31, మరియు ఒక సంఖ్యను విషయంగా పెట్టారు అంటే, విషయం 30 చేశాయి. ఎందుకు ఎందుకు పెట్టారు సంఖ్య?

Options:
1. $\therefore 36$
2. $\therefore 35$
3. $\therefore 37$
4. $\therefore 34$

Question Number : 19 Question Id : 469750919 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average of 30 numbers is 69. The average of other 50 numbers is 88. The average of all numbers approximately is:

30 సంఖ్యల సంఖ్య 69, మరొక సంఖ్యల సంఖ్య 88, అంటే అనుసర సంఖ్యల సమాధానం?

Options:
Question Number : 20 Question Id : 469750920 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average of 251, 568, 679, 722, 980 is:

251, 568, 679, 722, 980 = 690

Options:
1. ✗ 660
2. ✗ 650
3. ✗ 670
4. ✔ 640

Question Number : 21 Question Id : 469750921 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average of 7 numbers is 69. The average of the first 4 numbers is 60 and the average of the last 4 numbers is 79. The 4th number is:

7 = 69, 4 = 60, 6 = 79. 4th number:

Options:
1. ✗ 93
2. ✗ 83
3. ✔ 73
4. ✗ 63

Question Number : 22 Question Id : 469750922 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

A, B, C started a shop by investing ₹ 900, ₹ 1100, ₹ 1500 respectively. At the end of the year the profit was distributed. If A’s share was ₹ 4680 their total profit was:

A, B, C ₹ 900, ₹ 1100, ₹ 1500 respectively. Profit is distributed. A’s share ₹ 4680. Total profit is:

Options:
1. ✗ ₹ 19200
2. ₹ 18200
3. ₹ 17200
4. ₹ 16200

Question Number : 23 Question Id : 469750923 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If an amount of ₹ 4,500 is to be distributed among A, B and C in the proportion 4 : 3 : 8, then the difference of the profits of A and C, is:
4 : 3 : 8 అక్షరాలతో ₹ 4,500 విభజించు అంశాలు A, B మరియు C ల విభజన విభాగాలు కంటే, A మరియు C ల విభజన విభాగాలు లేనం కనుమనం?
Options :
1. ₹ 1,500
2. ₹ 1,400
3. ₹ 1,300
4. ₹ 1,200

Question Number : 24 Question Id : 469750924 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
A's salary is 40% less than that B's salary, then B's salary is more than A's salary by:
A య వారి వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక వార్షిక
Options :
1. 77\frac{2}{3} %
2. 88\frac{2}{3} %
3. 99\frac{2}{3} %
4. 66\frac{2}{3} %

Question Number : 25 Question Id : 469750925 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
Two successive price increases of 15% and 15% of an article are equivalent to a single price increase of:
విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద విషాద
Options :
1. 34\frac{1}{4} %
2. ∗ 33\% \quad 4

3. ✔ 32\% \quad 4

4. ∗ 31\% \quad 4

Question Number: 26 Question Id: 469750926 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

80% of (x - y) = 20% of (x + y), then what percent of x is y?

(x - y) \; 80\% = (x + y) \; 20\% \; \text{or} \; x - y = \frac{1}{5} (x + y) \; \text{or} \; x = \frac{6}{4} y \; \text{or} \; \frac{3}{2} y

Options:
1. ∗ 90\%
2. ∗ 80\%
3. ∗ 70\%
4. ✔ 60\%

Question Number: 27 Question Id: 469750927 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

If the salary of Arun is first increased 20% and then decreased or reduced by 20%, then percent reduced is:

20\% \; \text{increased, 20\% \; decreased, then percent reduced is:}

Options:
1. ∗ 6\%
2. ∗ 5\%
3. ∗ 7\%
4. ✔ 4\%

Question Number: 28 Question Id: 469750928 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The cost of 30 articles is equal to the selling price of 25 articles. The profit percent is:

30 \; \text{articles} \; \text{cost} \; \text{25 \; articles} \; \text{sell} \; \text{20\% \; profit}. \; \text{then profit:}

Options:
1. ∗ 16\%
2. ∗ 30\%
3. ✔ 20\%
Question Number : 29 Question Id : 469750929 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( x \% \) of 500 = \( y \% \) of 400 and \( x \% \) of \( y \% \) of 900 = 80, then \( x = ? \)
\[
500 \times \frac{x}{100} \times 400 \times \frac{y}{100} \times \frac{900 \times \frac{x}{100}}{100} = 80
\]
Options :
1. ✔ 70/3
2. 60/3
3. ✔ 50/3
4. ✔ 80/3

Question Number : 30 Question Id : 469750930 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
Simple interest on a certain sum for 5 years is \( \frac{7}{20} \) of the sum, then the rate of interest is:
\[
\frac{5 \times \text{Simple Interest}}{5 \times \text{Principal}} = \frac{7}{20} \text{ of the sum, \( \text{Rate} \% = \frac{7}{20} \times 100 \)}
\]
Options :
1. ✔ 6%
2. ✔ 7%
3. ✔ 5%
4. ✔ 4%

Question Number : 31 Question Id : 469750931 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
In simple interest at what rate of interest, will the amount thrice in 10 years?
\[
\text{Amount} = 3 \times \text{Principal}, \text{Rate} \% = ? \text{ for } 10 \text{ years}
\]
Options :
1. ✔ 40%
2. ✔ 30%
3. ✔ 20%
4. ✔ 10%
The compound interest on ₹ 8000 at 20% per annum for 2 years is:

Options:
1. ₹ 5520
2. ₹ 6520
3. ₹ 4520
4. ₹ 3520

Question Number : 33 Question Id : 469750933 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

A sum of money at compound interest becomes thrice itself in 12 years. It will be 27 times itself in:

Options:
1. 56 years
2. 46 years
3. 36 years
4. 26 years

Question Number : 34 Question Id : 469750934 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

A man walks 150 m every day. How many kilometres will he walk in five weeks?

Options:
1. 7.25 km
2. 6.25 km
3. 5.25 km
Question Number : 35 Question Id : 469750935 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
A man sold 30 apples for ₹ 200 and gained 30%. How many apples did he buy for ₹ 400 is:

हे ग्राहक 30 अम्लें ₹ 200 के बेचकर 30% का लाभ बनाया. ₹ 400 के बेचकर कितने अम्लें खरीदें?

Options :
1. ☒ 108
2. ✗ 88
3. ✗ 98
4. ✔ 78

Question Number : 36 Question Id : 469750936 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
8 men can complete a piece of work in 56 hours, in how many hours will 14 men complete the same piece of work?

8 मनो सक्षम अभ्यास 56 घंटों में निर्माण करते हैं. 14 मनो सक्षम अभ्यास कितने घंटे में समाप्त करेंगे?

Options :

1. ✔ 52 घंटे
2. ✗ 32 सयां
3. ✗ 42 घंटे
4. ✗ 62 घंटे

Question Number : 37 Question Id : 469750937 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
A labourer earns ₹ 540 for 10 days work. In order to earn ₹ 432, the number of days he will have to work is:

एक अभ्यास 10 दिनों में ₹ 540 काम करता है. ₹ 432 काम करने के लिए, उन्हें कितने दिनों तक काम करना होगा?

Options :

1. ✗ 7
2. ✔ 8
Question Number : 38  Question Id : 469750938  Question Type : MCQ Option Shuffling  : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks  : Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33

A and B can do a piece of work in 15 and 20 days respectively. How many days they together finish the work?

A  ಮತ್ತು B  ಒಂದು ಕಟ್ಟುಗಡೆ 15 ದಿನಗಳು 20 ದಿನಗಳು. ಮತ್ತು B ಒಂದು ಕಟ್ಟುಗಡೆ 20 ದಿನಗಳು

Options :

1. 90/7 days
2. 80/7 days
3. 70/7 days
4. 60/7 days

Question Number : 39  Question Id : 469750939  Question Type : MCQ Option Shuffling  : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks  : Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33

The roots of the quadratic equation $x^2 - x - 20 = 0$, are:

$x^2 - x - 20 = 0$ ಎಂಜಿಯಿಂ ಎಂಬ್ರೆಂಬಹ್ಳಿ ಎಂಜಿಯಿಂ ಎಂಬ್ರೆಂಬಹ್ಳಿ:

Options :

1. 5, -4
2. -5, 4
3. -5, -4
4. 5, 4

Question Number : 40  Question Id : 469750940  Question Type : MCQ Option Shuffling  : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks  : Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33

The quadratic equation whose roots are $2 + \sqrt{3}$ and $2 - \sqrt{3}$ is:

$2 + \sqrt{3}$ ಎಂಜಿಯಿಂ $2 - \sqrt{3}$ ಎಂಬ್ರೆಂಬಹ್ಳಿ:

Options :

1. $x^2 + 4x + 1 = 0$
2. $x^2 - 4x + 1 = 0$

3. $x^2 - 4x - 1 = 0$

4. $x^2 + 4x - 1 = 0$

Question Number: 41  Question Id: 469750941  Question Type: MCQ Option Shuffling: Yes  Display Question Number: Yes  Is Question Mandatory: No  Single Line Question Option: No  Negative Marks Display Text: 1/3  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0.33

The sum and product of the roots of $x^2 - 3x - 15 = 0$ are:

$x^2 - 3x - 15 = 0$  రేఖాసాధనాలు సమాధానాలు ఇవి లేదు:

Options:
1. $3, 15$
2. $-3, 15$
3. $3, -15$
4. $-3, -15$

Question Number: 42  Question Id: 469750942  Question Type: MCQ Option Shuffling: Yes  Display Question Number: Yes  Is Question Mandatory: No  Single Line Question Option: No  Negative Marks Display Text: 1/3  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0.33

The remainder, when $4x^2 - 8x + 3 = 0$ is divided by $2x - 1$, is:

$4x^2 - 8x + 3 = 0$  గాంధీనుడు పద్ధతితో పంచికం ఉంది:

Options:
1. $1$
2. $2$
3. $3$
4. $0$

Question Number: 43  Question Id: 469750943  Question Type: MCQ Option Shuffling: Yes  Display Question Number: Yes  Is Question Mandatory: No  Single Line Question Option: No  Negative Marks Display Text: 1/3  Option Orientation: Vertical  Correct Marks: 1  Wrong Marks: 0.33

If $x^3 + 2x^2 + ax + b = 0$ has factors $x + 1$ and $x - 1$, then $a$ and $b$ are:

$x^3 + 2x^2 + ax + b = 0$  గాంధీనుడు $x + 1$ ఉంది, తడం $x - 1$  ఉంది అంటే $a$ అంటే $b$ ఎంటటు ఉండాలి:

Options:
1. $1, 2$
2. $-1, 2$
3. $1, -2$
4. ✓ -1, -2

The factorization of \( x^3 + 3x^2 - x - 3 = 0 \) are
\[ x^3 + 3x^2 - x - 3 = 0 \]

Options:
1. ★ (x - 1)(x + 1)(x - 3)
2. ★ (x - 1)(x - 2)(x - 3)
3. ✔ (x - 1)(x + 1)(x + 3)
4. ★ (x - 1)^2 (x + 3)

Solution of \( x^2 - 6x + 8 > 0 \) are:
\[ x^2 - 6x + 8 > 0 \]

Options:
1. ★ x < 2, x > -4
2. ★ x < -4, x > 2
3. ✔ x < 2, x > 4
4. ★ x < -4, x > -2

The sum of \( n \) natural numbers is:
\[ \sum_{k=1}^{n} k = \frac{n(n + 1)}{2} \]

Options:
1. ✔ \[ \frac{n(n + 1)}{2} \]
2. ★ \[ \frac{n(n + 1)}{3} \]
3. ★ \[ \frac{n(n + 2)}{2} \]
4. \[ \frac{n(n + 2)}{3} \]

Question Number: 47 Question Id: 469750947 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The sum of squares of the first \( n \) natural numbers is:

\[ \sum_{k=1}^{n} k^2 = \frac{n(n + 1)(2n + 1)}{6} \]

Options:
1. \( \frac{n(2n + 1)(n + 1)}{6} \)
2. \( \frac{n(2n - 1)(n + 1)}{6} \)
3. \( \frac{n(2n + 1)(n - 1)}{6} \)
4. \( \frac{n(2n - 1)(n - 1)}{6} \)

Question Number: 48 Question Id: 469750948 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The factors of \( x^3 - 5x^2 + 7x - 3 = 0 \) are:

\[ x^3 - 5x^2 + 7x - 3 = 0 \]

Options:
1. \( (x - 1)^2 (x + 3) \)
2. \( (x + 1)^2 (x - 3) \)
3. \( (x + 3)^2 (x - 1) \)
4. \( (x - 1)^2 (x - 3) \)

Question Number: 49 Question Id: 469750949 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The remainder when \( 3x^3 - 2x^2 + x + 2 = 0 \) is divided by \( x - 2 \) is:

\[ 3x^3 - 2x^2 + x + 2 = 0 \]

Options:
1. \( 30 \)
2. \( 40 \)
Question Number : 50 Question Id : 469750950 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \(x - 1\) is divides \(4x^4 - 12x^3 + 5x^2 + 10x + \alpha\) exactly, then \(\alpha = ?\)
\(x - 1\) అండులో మేరకు నిండి \(4x^4 - 12x^3 + 5x^2 + 10x + \alpha\ రెండు తరగతి ఆధారాలని, అందులో \(\alpha = ?\)

Options :
1. ** - 9
2. ** - 8
3. ✔ - 7
4. ** - 6

Question Number : 51 Question Id : 469750951 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \(a\) and \(b\) are unequal and \(x^2 + ax + b = 0\) and \(x^2 + bx + a = 0\) have a common factor, then:
\(a\) మరియు \(b\) అంతర్భాగంగా ఉన్నాయి కాని \(x^2 + ax + b = 0\ మరియు \(x^2 + bx + a = 0\ మూడు తరగతి ఆధారాలలో కలిగిఉంటాయాయి.

Options :
1. ** \(a-b-1 = 0\)
2. ** \(a+b-1 = 0\)
3. ** \(-a+b-1 = 0\)
4. ✔ \(a+b+1 = 0\)

Question Number : 52 Question Id : 469750952 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The cubic equation whose roots are 1, 2, 3, is:
అంతర్భాగాలు 1, 2, 3 యొక్క రెండవ క్రమాలు:

Options :
1. ✔ \(x^3 - 6x^2 + 11x - 6 = 0\)
2. ** \(x^3 + 6x^2 - 11x - 6 = 0\)
3. ** \(x^3 - 6x^2 - 11x + 6 = 0\)
4. ** \(x^3 + 6x^2 + 11x - 6 = 0\)
Question Number : 53 Question Id : 469750953 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The positive consecutive numbers whose product is 72, then the numbers are:

Options :
1. ✓ 8, 9
2. ✗ -8, -9
3. ✗ 6, 12
4. ✗ 18, 4

Question Number : 54 Question Id : 469750954 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The function \( f(x) = x^3, g(x) = \cos(\log x) \), then \((gof)x = ?\)

Options :
1. ✗ \(\cos(2\log x)\)
2. ✓ \(\cos(3\log x)\)
3. ✗ \(\cos(4\log x)\)
4. ✗ \(\cos(5\log x)\)

Question Number : 55 Question Id : 469750955 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The function \( f(x) = x^2, x \in \mathbb{R}^+ \) is:

Options :
One-one
1. ✗ \(\text{Onto}\)
2. ✗ \(\text{Bijection}\)
3. ✓ \(\text{Injective}\)
Question Number: 56 Question Id: 469750956 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0.33

The function \( f(x) = x^3 \) is:

\[ f(x) = x^3 \]

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options:
- one - one
- onto
- bijection
- inverse function

Question Number: 57 Question Id: 469750957 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0.33

A function \( f(x) = k \), where \( k \) is a constant is:

\[ k \text{ constant} \implies f(x) = k \text{ always} \]

Options:
- one - one
- onto
- bijection
- constant function
Question Number : 58 Question Id : 469750958 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If \( A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 8 & 9 & 7 \end{bmatrix} \), then the order of \( A \) is:

\[ A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 8 & 9 & 7 \end{bmatrix} \]

Options :
1. \( \times \ 2 \times 3 \)
2. \( \checkmark \ 3 \times 3 \)
3. \( \times \ 4 \times 3 \)
4. \( \times \ 5 \times 3 \)

Question Number : 59 Question Id : 469750959 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If \( A = \begin{bmatrix} 5 \\ 1 \\ 6 \end{bmatrix} \), \( B = \begin{bmatrix} a \\ b \\ c \end{bmatrix} \) and \( A = B \), then \( a \), \( b \), \( c \) and \( d \) are:

\[ A = \begin{bmatrix} 5 \\ 1 \\ 6 \end{bmatrix}, \quad B = \begin{bmatrix} a \\ b \\ c \end{bmatrix}, \quad A = B \]

Options :
1. \( \times \ 1, 6, 5, 4 \)
2. \( \times \ 5, 4, 6, 1 \)
3. \( \checkmark \ 5, 4, 1, 6 \)
4. \( \times \ 6, 1, 4, 5 \)

Question Number : 60 Question Id : 469750960 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If \( A = \begin{bmatrix} 5 & 4 \\ 1 & 6 \end{bmatrix} \), \( B = \begin{bmatrix} -2 & 7 \\ 6 & 9 \end{bmatrix} \) and \( A + B - X = 0 \), then \( X = ? \)

\[ A = \begin{bmatrix} 5 & 4 \\ 1 & 6 \end{bmatrix}, \quad B = \begin{bmatrix} -2 & 7 \\ 6 & 9 \end{bmatrix}, \quad A + B - X = 0 \]

Options :
1. \( \times \ \begin{bmatrix} 3 \\ -7 \\ 11 \end{bmatrix} \)
2. \( \times \ \begin{bmatrix} 3 & -11 \\ 7 & 15 \end{bmatrix} \)
3. \( \times \ \begin{bmatrix} 3 & 11 \\ 7 & -15 \end{bmatrix} \)
4. \[\begin{bmatrix} 3 & 11 \\ 7 & 15 \end{bmatrix}\]

Question Number : 61 Question Id : 469750961 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The system of equations \(x + y = 6, \ 2x + 2y = 9\) have:
\(x + y = 6, \ 2x + 2y = 9\) \text{ have:}

Options :
- one solution
- no solution
- infinite number of solutions
- finite number of solutions

Question Number : 62 Question Id : 469750962 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The solution of the system of equations \(x - 3y = 6, \ 2x + y = 5\), is:
\(x - 3y = 6, \ 2x + y = 5\) \text{ is:}

Options :
1. \(x = 3, \ y = 2\)
2. \(x = 3, \ y = 1\)
3. \(x = 3, \ y = -2\)
4. \(x = 3, \ y = -1\)

Question Number : 63 Question Id : 469750963 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \(A = \begin{bmatrix} 3 & 4 \\ 7 & 9 \end{bmatrix}, \ B = \begin{bmatrix} -2 & 3 \\ -1 & 4 \end{bmatrix}\), then \(AB\) is equal to:
\(A = \begin{bmatrix} 3 & 4 \\ 7 & 9 \end{bmatrix}, \ B = \begin{bmatrix} -2 & 3 \\ -1 & 4 \end{bmatrix}\) \text{ equal to:}

Options :
Question Number : 64 Question Id : 469750964 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( A = \{1, 2, 3, 4\} \), \( B = \{a, b, c, d, e\} \), then \( A \times B \) is equal to:
\[
A = \{1, 2, 3, 4\}, B = \{a, b, c, d, e\} \text{ 选项均不正确，因此 } A \times B \text{ 无法计算。}
\]
Options :
1. ** 30
2. ** 40
3. ** 50
4. ✔️ 20

Question Number : 65 Question Id : 469750965 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( f = \{(a,1), (2,c), (3,b), (4,d)\} \), \( g = \{(a,3), (c,4), (d,2), (b,1)\} \), then fog is equal to:
\[
f = \{(a,1), (2,c), (3,b), (4,d)\}, g = \{(a,3), (c,4), (d,2), (b,1)\} \text{ 选项均不正确，因此 fog 无法计算。}
\]
Options :
1. ** \{(a,b), (b,c), (b,d), (d,a)\}
2. ✔️ \{(a,b), (b,a), (c,d), (d,c)\}
3. ** \{(a,b), (c,b), (b,d), (d,c)\}
4. ** \{(a,b), (b,a), (d,d), (c,c)\}

Question Number : 66 Question Id : 469750966 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( B = \begin{pmatrix} -2 & 3 \\ -1 & 4 \end{pmatrix} \), then \( B^2 = ? \)
\[
B = \begin{pmatrix} -2 & 3 \\ -1 & 4 \end{pmatrix} \text{ 选项均不正确，因此 } B^2 \text{ 无法计算。}
\]
Options :
1. \[
\begin{bmatrix}
1 & 6 \\
3 & 13
\end{bmatrix}
\]

2. \[
\begin{bmatrix}
1 & 6 \\
-2 & 12
\end{bmatrix}
\]

3. \[
\begin{bmatrix}
1 & 6 \\
3 & 12
\end{bmatrix}
\]

4. \[
\begin{bmatrix}
1 & 6 \\
-2 & 13
\end{bmatrix}
\]

Question Number : 67 Question Id : 469750967 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The solution of the system of equations \( x - y = 12, \ x + y = 4 \) in Cramer's rule, is:

Options :
1. \( x = 9, \ y = -4 \)
2. \( x = 9, \ y = 4 \)
3. \( x = 8, \ y = 4 \)
4. \( x = 8, \ y = -4 \)

Question Number : 68 Question Id : 469750968 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If A, B, C invested their capitals in the ratio of 2 : 3 : 4 at the end of the business terms, they received the profit in the ratio 6 : 9 : 7. The ratio of time periods for which they contributed their capitals is:

A, B, C \( \text{ಸ್ಥಳ} \) \( 2 : 3 : 4 \) \( \text{ಅಡುಗೆ} \) \( " \text{ಅಡುಗೆ} " \) \( 6 : 9 : 7 \) \( " \text{ಅಡುಗೆ}" \) \( " \text{ಅಡುಗೆ}" \) \( " \text{ಅಡುಗೆ}" \)

Options :
1. \( 11 : 11 : 8 \)
2. \( 12 : 12 : 7 \)
3. \( 13 : 13 : 9 \)
4. \( 14 : 14 : 5 \)

Question Number : 69 Question Id : 469750969 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The selling price of 40 articles is equal to the cost of 60 articles. The gain percentage is:

40 విద్యార్థుల విద్యార్థుల లో 60 విద్యార్థుల విద్యార్థుల కనిష్ఠము. అందువల్ల అంధకారి:

Options:
1. ✗ 80%
2. ✗ 70%
3. ✗ 60%
4. ✅ 50%

Question Number: 70 Question Id: 469750970 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

If \( A = \begin{bmatrix} 3 & a \\ 2 & 3 \end{bmatrix} \) is symmetric, then \( a = ? \)

\( A = \begin{bmatrix} 3 & a \\ 2 & 3 \end{bmatrix} \) సాధారణ ఉపసమాఖ్య, అంటే \( a = ? \)

Options:
1. ✅ 2
2. ✗ 1
3. ✗ 0
4. ✗ 3

Question Number: 71 Question Id: 469750971 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

If \( A \) is skew symmetric, then:

\( A \) సైన్యానికము, అంటే:

Options:
1. ✗ \( AA^T = 0 \)
2. ✗ \( AA^T = I \)
3. ✗ \( A^T = 0 \)
4. ✅ \( A^T = -A \)

Question Number: 72 Question Id: 469750972 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The class interval of the frequency distribution 1–8, 9–16, 17–24 ------, is:

1–8, 9–16, 17–24 ------ ఫ్రెక్ష్యూస్ ఆసనాలు:

Options:
Question Number : 73 Question Id : 469750973 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The range of the values 24, 57, 64, 8, 16, 82, 94, 27, 59, 12 is:

24, 57, 64, 8, 16, 82, 94, 27, 59, 12 లో విభేదం ఉంది:

Options :
1. ✗ 88
2. ✗ 87
3. ✔ 86
4. ✗ 85

Question Number : 74 Question Id : 469750974 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The median of the numbers 5, 10, 3, 7, 2, 9, 6, 2, 11 is:

5, 10, 3, 7, 2, 9, 6, 2, 11 అంశాల నియోధకం:

Options :
1. ✗ 9
2. ✗ 10
3. ✗ 7
4. ✔ 6

Question Number : 75 Question Id : 469750975 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
If 6, 4, 8 and 3 occur with frequencies 4, 2, 5 and 1, respectively, then the arithmetic mean is:

6, 4, 8 మొత్తం 3 మొత్తం 4, 2, 5 మొత్తం 1 అంశాలను పూర్వగా నియోధించి, అధికార మధ్యస్థము ఉండి:

Options :
1. ✗ 8.25
2. ✗ 7.25
3. ✔ 9.25
Question Number : 76 Question Id : 469750976 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The median of the numbers 8, 13, 17, 5, 10, 21, 27, 30, 33, 43 is:
8, 13, 17, 5, 10, 21, 27, 30, 33, 43 అంశాల మధ్యకారం:
Options :
1. ✗ 20
2. ✗ 21
3. ✗ 22
4. ✓ 19

Question Number : 77 Question Id : 469750977 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The mode of the numbers 9, 8, 7, 7, 6, 3, 2, 7, 1, 7, 9 is:
9, 8, 7, 7, 6, 3, 2, 7, 1, 7, 9 అంశాల మూడురు:
Options :
1. ✗ 9
2. ✗ 6
3. ✗ 8
4. ✓ 7

Question Number : 78 Question Id : 469750978 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The mode of the numbers 4, 5, 6, 7, 6, 5, 3, 2, 7, 6, 7 are:
4, 5, 6, 7, 6, 5, 3, 2, 7, 6, 7 అంశాల మూడురు:
Options :
7 and 6
1. ✓ 7 అంశాలు 6
5 and 6
2. ✗ 5 అంశాలు 6
5 and 7
3. ✗ 5 అంశాలు 7
Question Number : 79 Question Id : 469750979 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The median of the observations $\frac{3}{4}, \frac{1}{2}, \frac{2}{3}, \frac{1}{6}, \frac{1}{12}$ is:

$\frac{3}{4}, \frac{1}{2}, \frac{2}{3}, \frac{1}{6}, \frac{1}{12}$ ఒక సంఖ్యలు వాటిలో మధ్యరేఖాభింపు యునైటడు:

Options :

1. **3
2. **7
3. **12
4. **6

Question Number : 80 Question Id : 469750980 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The mid value of 20 – 29 is:

20 – 29 విస్తృతి యొక్క విచిత్ర విభాగం (మధ్య విద్యార్థి):

Options :

1. **24
2. **24.5
3. **25.5
4. **25

Question Number : 81 Question Id : 469750981 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
For a given data, if the mean is 39 and the median is 38, then the mode is:

ఒక అనుసారం, మధ్యమం 39 లేదు మధ్యరేఖాభింపు 38 లేదు, తదుపార్థమ మధ్యం ఉంటుందని:

Options :

1. **56
2. **46
Question Number : 82 Question Id : 469750982 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
What is the relation among mean, median and mode?
ifiant, మధ్యమం మధ్యమమైన మధ్యమానిని మధ్యమమైన మధ్యమం మధ్యమమైన మధ్యమం?
Options :
Mode = 3 Median – 2 Mean
1. ✔ 3 మధ్యమం = 3 మధ్యమం – 2 మధ్యమం
Mode = 3 Mean – 2 Median
2. ✔ 3 మధ్యమం = 3 మధ్యమం – 2 మధ్యమం
Mean = 3 Mode – 2 Median
3. ✔ 3 మధ్యమం = 3 మధ్యమం – 2 మధ్యమం
Median = 3 Mean – 2 Mode
4. ✔ 3 మధ్యమం = 3 మధ్యమం – 2 మధ్యమం

Question Number : 83 Question Id : 469750983 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The arithmetic mean of ‘n’ natural numbers is:
ఎంతరక సంఖ్యల ఎక్కడ ఎంటరకం?
Options :
\[
\frac{(n + 1)}{2}
\]
1. ✔ \[\frac{(n + 1)}{2}\]
\[
\frac{(n + 1)}{3}
\]
2. ✔ \[\frac{(n + 1)}{3}\]
\[
\frac{(n - 1)}{2}
\]
3. ✔ \[\frac{(n - 1)}{2}\]
\[
\frac{(n - 1)}{3}
\]
4. ✔ \[\frac{(n - 1)}{3}\]
For the observations \( \frac{x}{5}, \frac{x}{4}, \frac{x}{2} \) and \( \frac{x}{3} \) median is 8, then \( x \) is equal to:

\( \frac{x}{5}, \frac{x}{4}, \frac{x}{2} \)Median of \( \frac{x}{3} \)equals 8. The value of \( x \) is.

Options:
1. ✗ 34
2. ✗ 44
3. ✓ 24
4. ✗ 54

Question Number : 85 Question Id : 469750985 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The mean of 11 observations is 40. By an error, one observation is registered as 35 instead of 46, the correct mean is:

11 observations mean 40. If one observation is 35 instead of 46, then the correct mean is.

Options:
1. ✗ 21
2. ✗ 31
3. ✗ 11
4. ✓ 41

Question Number : 86 Question Id : 469750986 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The mode of the observations 4, 5, 6, 7, 6, 8, 9, \( x \), 6, 8, then \( x \) is:

4, 5, 6, 7, 6, 8, 9, \( x \), 6, 8 the mode is \( x \) is.

Options:
1. ✗ 8
2. ✓ 6
3. ✗ 9
4. ✗ 5

Question Number : 87 Question Id : 469750987 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The mean of the 9, 11, 13, \( p \), 18, 19 is \( p \), then the value of \( p \) is:

9, 11, 13, \( p \), 18, 19 and the mean is \( p \) the value of \( p \) is.

Options:
1. ✗ 24
2. \* 34
3. \* 44
4. ✔ 14

Question Number : 88 Question Id : 469750988 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The product of \(-\frac{3}{15}\) and \('x'\) is \(-\frac{1}{18}\). Find the reciprocal of \('x'\).

\[-\frac{3}{15} \times 'x' \text{ तथा} \frac{1}{18} \text{ का विपरीतक बताइए।} \]

Options :
1. ✔ 18/5
2. \* 5/18
3. \* -18/5
4. \* -5/18

Question Number : 89 Question Id : 469750989 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

Find the reciprocal of the product of \(\left(\frac{3}{7} + \frac{-5}{4}\right)\) and \(\left(\frac{-5}{13} + \frac{45}{78}\right)\).

\[\left(\frac{3}{7} + \frac{-5}{4}\right) \text{ तथा} \left(\frac{-5}{13} + \frac{45}{78}\right) \text{ का विपरीतक बताइए।} \]

Options :
8
1. ✔ 35
2. ✔ 8
3. \* 11
4. \* 8

Question Number : 90 Question Id : 469750990 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

Find the sum of additive inverse and multiplicative inverse of 6.

6 \text{ के विपरीतक और} मूल्यवान विपरीतक का संयोग करें।
Question Number : 91  Question Id : 469750991  Question Type : MCQ  Option Shuffling : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33
What will be the value of $3\sqrt[4]{\log_4 2} - 4\sqrt[2]{\log_4 2}$?

Options :
1. $1$
2. $-1$
3. $0$
4. $2$

Question Number : 92  Question Id : 469750992  Question Type : MCQ  Option Shuffling : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33
Find the minimum value of $|x| + \left| x + \frac{1}{2} \right| + \left| x - 3 \right| + \left| x - \frac{5}{2} \right|$.

Options :
1. $2$
2. $3$
3. $4$
4. $6$

Question Number : 93  Question Id : 469750993  Question Type : MCQ  Option Shuffling : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33
Find the sum of the numbers less than 100 which are common multiples of 3 and 4.

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options:
1. 90
2. 180
3. 60
4. 120

Question Number: 94 Question Id: 469750994 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33
What is the greatest number that can divide 1046 and 1523 leaving remainders 1 and 3, respectively?

Options:
1. ✔ 95
2. 62
3. ✔ 98
4. 68

Question Number: 95 Question Id: 469750995 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33
Identify the FALSE statement from the following statements.

Options:
All rational numbers are integers.
1. ✔ గుమాయ రాցయానిక సంఖ్యలు సమగ్రానిక

All integers are rational numbers.
2. ✔ సంఖ్యలు రాశిపుల సంఖ్యలు సమగ్రానిక

Multiplicative inverse and additive inverse of –1 remains the same.
3. ✗ –1 దాని సంపాదన మరింత సంఖ్యలు కొత్త కాదు మరింత సంఖ్యలు కొత్త

Zero is a rational number.
4. ✔ శాస్త్ర సంఖ్యలు సమగ్రానిక
If \( x \) satisfies \( |x - 1| + |x - 2| + |x - 3| \geq 6 \), then which of the following is correct?

\( x \) ఎందుకు \( |x - 1| + |x - 2| + |x - 3| \geq 6 \) లేదు ఉండి ఎలా ఉండగా ఉంటుంది?

Options:
1. \( 0 \leq x \leq 4 \)
2. \( x \leq -2 \) (or) \( x \geq 4 \)
3. \( x \leq 0 \) (or) \( x \geq 4 \)
4. \( x \in \mathbb{R} \)

If \( a \) is the number of prime numbers from 1 to 100, then find the value of \( 2a + 3 \).

\( a \) ఎందుకు 1 నుంచి 100 వరకు ప్రముఖ సంఖ్యలు ఎంతప్పుడు ఉన్నాం, \( 2a + 3 \) ఎంతప్పుడు ఉంటుంది?

Options:
1. \( 28 \)
2. \( 53 \)
3. \( 48 \)
4. \( 33 \)

The LCM and HCF of two numbers are 1936 and 22, respectively. If one of the numbers is 176, then find the sum of the digits of the second number.

\( \) ఎందుకు లచము (LCM) మరింత హిఫ్ఫ్ఫు (HCF) ఎందుకు 1936 మరింత 22. ప్రముఖ ఎందుకు 176 ఉన్ను, మరింత ఎంత సంఖ్య ఎలా ఉండగా ఉంటుంది?

Options:
1. \( 8 \)
2. \( 9 \)
3. \( 6 \)
4. \( 12 \)
Question Number : 99 Question Id : 469750999 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The sum of two numbers is 156 and their HCF is 4. The number of pairs of numbers satisfying the above condition is:

Options :
1. ✗ 11
2. ✗ 15
3. ✓ 12
4. ✗ 10

Question Number : 100 Question Id : 4697501000 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
Out of 1200 chocolates which were made by a cottage industry, 240 have almonds and others have raisins. What is the percentage of chocolates with raisins?

Options :
1. ✗ 75%
2. ✓ 80%
3. ✗ 68%
4. ✗ 82%

Question Number : 101 Question Id : 4697501001 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
Radha failed by 20 marks after she scored 30% of the maximum marks, whereas Tara passed by 10 marks when she scored 60% of maximum marks. Find out the minimum marks for passing the exam.

Options :
1. ✓ 50
2. ✗ 40
3. ✗ 60
4. ✗ 45
Question Number : 102 Question Id : 4697501002 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

A dairy farmer on selling cottage cheese at ₹ 150 per kg, incurs a loss of 10%. How many kilograms of cottage cheese were sold if total loss was ₹ 50?

Options:

1. 4 kg
2. 3.5 kg
3. 4.5 kg
4. 3 kg

Question Number : 103 Question Id : 4697501003 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

A baker wants to use 1560 kg of sugar for making three cakes A, B and C such that in cake A, he uses 50% of what is he uses for cake B and in cake B, he uses 20% of what he uses for cake C. How much sugar (in kg) is used for cake C?

Options:

1. 1250
2. 1200
3. 2400
4. 1500

Question Number : 104 Question Id : 4697501004 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The price of paddy increased by 15% in the year 2019. In the year 2020, the price of paddy decreased by 15%. Find the net increase or decrease in the price of paddy per kg.

Options:
1. ✗ 2.5% Increase
2. ✗ 2.25% Increase
3. ✗ 2.25% Decrease
4. ✗ 3.25% Decrease

Question Number: 105 Question Id: 4697501005 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

The difference in the selling prices of a tablemat when sold at profits of 4% and 6% is ₹ 10. Find the cost price (in rupees) of the tablemat.

Options:
1. ✗ 450
2. ✗ 500
3. ✗ 400
4. ✗ 550

Question Number: 106 Question Id: 4697501006 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33
James wants to buy a laptop of ₹ 25,000. Which of the following options would yield him maximum discount?

a) Two successive discounts of 10% and 10%

b) Single discount of 20%

c) Two successive discounts of 15% and 5%

Divya deposited ₹ 7,500 for 9 months in a bank which pays her 12% interest per annum compounded quarterly. What amount (in rupees, correct to two places of decimal) will she receive?

9,200

8,200

9,195.45

8,195.45
Ranjani starts from her home and reaches a city in 13 h. She travels $\frac{1}{4}$th of the distance at the speed of 15 km/h and the remaining distance at the speed of 20 km/h. Find the distance (in km) between her home and the city.

Options:
1. 80
2. 140
3. 180
4. 240

Question Number: 109  Question Id: 4697501009  Question Type: MCQ  Option Shuffling: Yes  Display Question Number: Yes  Is Question Mandatory: No  Single Line Question Option: No  Negative Marks: 0.33  Correct Marks: 1  Wrong Marks: 0.33
Rehan completed 70% of ploughing his field with the help of bullocks in 15 days. Later, along with the bullocks, with the help of a tractor, he completed the remaining 30% of ploughing the field in 4 days. If he used the tractor alone to plough his entire field, then in how many days it could be done? (consider the approximate value)

Options:
1. 35
2. 39
3. 40
4. 30

Question Number: 110  Question Id: 4697501010  Question Type: MCQ  Option Shuffling: Yes  Display Question Number: Yes  Is Question Mandatory: No  Single Line Question Option: No  Negative Marks: 0.33  Correct Marks: 1  Wrong Marks: 0.33
In a residential school, there were 50 boarding students. If the number of students increased by 10, the expenses of the mess increased by ₹ 50 per day while the average expenditure per head reduced by ₹ 5. Find the original expenditure (in rupees) of the mess.

Options:
1. 1,850
2. 1,500
3. 1,750
4. 1,700

Question Number : 111 Question Id : 4697501011 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

Sreekar bought 5 beetle leaves for a rupee and sold 6 beetle leaves for a rupee. Find the percentage profit or loss.

స్రీకరు 5 బెటిల్ పెళ్ళు 1 రూపాయాలు కు వాప్పారారు కేవలం 6 బెటిల్ పెళ్ళు 1 రూపాయాలు విక్రయం చేసారు. మెరుగు విద్యార్థి ఆటగలు చేసారు?

Options:

\[ \frac{50}{3} \] % loss

1. \[ \frac{50}{3} \] % రద్దు

\[ \frac{50}{3} \] % profit

2. \[ \frac{50}{3} \] % పాత్ర

\[ \frac{25}{3} \] % loss

3. \[ \frac{25}{3} \] % రద్దు

\[ \frac{25}{3} \] % profit

4. \[ \frac{25}{3} \] % పాత్ర

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Question Number : 112 Question Id : 4697501012 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The value of a washing machine is ₹ 31,250 in the year 2017 and it is depreciating at the rate of 12% per annum. Then in which of the following years will its value be ₹ 21,296?

ఉష్ణమేద్ది శానిందల వాగ్భావణ్యం 2017 సాందర్భము రూపాయం 31,250 మొత్తంభాగం 12% రేకులు ముగిసింది. అంటే వాగ్భావణ్యం రూపాయం 21,296 మరింత నుండి ముగించడం లభించగలదు?

Options:

1. 2018
2. 2020
3. 2019
4. ** 2021

**Question Number:** 113 **Question Id:** 4697501013 **Question Type:** MCQ Option Shuffling **Yes Display Question Number:** Yes **Is Question Mandatory:** No **Single Line Question Option:** No **Negative Marks Display Text:** 1/3 **Option Orientation:** Vertical

**Correct Marks:** 1 **Wrong Marks:** 0.33

If \(2x + 3y = 12\) and \(xy = 6\), then find the value of \(8x^3 + 27y^3\).

\[2x + 3y = 12 \quad \therefore \quad xy = 6 \quad \Rightarrow \quad 8x^3 + 27y^3 = xy \times (2x + 3y)^3\]

**Options:**

1. ** 234
2. ** 324
3. ** 423
4. ✓ 432

**Question Number:** 114 **Question Id:** 4697501014 **Question Type:** MCQ Option Shuffling **Yes Display Question Number:** Yes **Is Question Mandatory:** No **Single Line Question Option:** No **Negative Marks Display Text:** 1/3 **Option Orientation:** Vertical

**Correct Marks:** 1 **Wrong Marks:** 0.33

If \(49x^2 - b = (7x + \frac{1}{2})(7x - \frac{1}{2})\), then find the value of \(b\).

\[49x^2 - b = \left(7x + \frac{1}{2}\right)\left(7x - \frac{1}{2}\right) \quad \Rightarrow \quad b \quad \text{is a root of} \quad 49x^2 - \left(7x + \frac{1}{2}\right)\left(7x - \frac{1}{2}\right)\]

**Options:**

1. ** \(\frac{1}{2}\)
2. ** \(\frac{1}{3}\)
3. ** \(\frac{2}{3}\)
4. ✓ \(\frac{1}{4}\)

**Question Number:** 115 **Question Id:** 4697501015 **Question Type:** MCQ Option Shuffling **Yes Display Question Number:** Yes **Is Question Mandatory:** No **Single Line Question Option:** No **Negative Marks Display Text:** 1/3 **Option Orientation:** Vertical

**Correct Marks:** 1 **Wrong Marks:** 0.33

If \(\alpha + \beta = -2\) and \(\alpha^3 + \beta^3 = -56\), then find the quadratic equation whose roots are \(\alpha, \beta\).

\[\alpha + \beta = -2 \quad \therefore \quad \alpha^3 + \beta^3 = -56 \quad \Rightarrow \quad \alpha, \beta \quad \text{are roots of} \quad x^2 + 2x - 16 = 0\]

**Options:**

1. ** \(x^2 + 2x - 16 = 0\)
2. ** \(x^2 + 2x - 15 = 0\)
3. \( x^2 + 2x - 12 = 0 \)

4. \( x^2 + 2x - 8 = 0 \)

**Question Number : 116** Question Id : 46975001016 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If \( \alpha, \beta \) are the roots of \( x^2 - (\alpha - 2)x - (\alpha + 1) = 0 \) where \( \alpha \) is a variable, then the least value of \( \alpha^2 + \beta^2 \) is:

\( \alpha, \beta \) \( \in \) \( x^2 - (\alpha - 2)x - (\alpha + 1) = 0 \) \( \alpha \) \( \in \) \( \text{set of real numbers} \), \( \alpha \) \( \leq \) \( \text{minimum value} \), \( \alpha^2 + \beta^2 \) \( \in \) \( \text{set of real numbers} \). Options:

1. **2**
2. **3**
3. ✔ 5
4. **7**

**Question Number : 117** Question Id : 46975001017 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

Find the value of \( a \) and \( b \) so that \( x + 1 \) and \( x - 1 \) are the factors of the polynomial \( x^4 + ax^3 + 2x^2 - 3x + b \).

\( x + 1 \) \( \in \) \( x - 1 \) \( \in \) \( x^4 + ax^3 + 2x^2 - 3x + b \) \( \alpha \) \( \in \) \( \text{set of real numbers} \), \( a \) \( \in \) \( \text{set of real numbers} \). Options:

1. ✔ 3 and -3
2. **-3 and 3**
3. **3 and 2**
4. **2 and 3**

**Question Number : 118** Question Id : 46975001018 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If \( x^2 + \frac{1}{x^2} = 34 \) and \( x + \frac{1}{x} \) is positive then find the value of \( x^3 + \frac{1}{x^3} \).

\( x^2 + \frac{1}{x^2} = 34 \) \( \alpha \) \( \in \) \( x + \frac{1}{x} \) \( \in \) \( \text{set of real numbers} \), \( x^3 + \frac{1}{x^3} \) \( \in \) \( \text{set of real numbers} \). Options:

1. **189**
Question Number : 119  Question Id : 4697501019  Question Type : MCQ Option Shuffling : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33
If one root of \( x^2 + lx + 12 = 0 \) is 2 while the equation \( x^2 + bx + m = 0 \) has equal roots, then find the value of \( m \).
\[ x^2 + bx + m = 0 \] has equal roots, \( x^2 + lx + 12 = 0 \) याच्या रूपांतरणांतिक विनिमय 2 वाक्यात, \( m \) निहित 
करणारा.

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options:
1. 12
2. 14
3. 16
4. 18

Question Number : 120  Question Id : 4697501020  Question Type : MCQ Option Shuffling : Yes  Display Question Number : Yes  Is Question Mandatory : No  Single Line Question Option : No  Negative Marks Display Text : 1/3  Option Orientation : Vertical  Correct Marks : 1  Wrong Marks : 0.33
The value of \( t \), for which one root of the quadratic equation \( (t^2 - 5t + 3)x^2 - (3t - 1)x + 2 = 0 \) is twice as large as the other, is:
\[ (t^2 - 5t + 3)x^2 - (3t - 1)x + 2 = 0 \] \( t \) याच्या रूपांतरणांतिक विनिमय \( \frac{2}{3} \) वाक्यात, \( t \) निहित 
करणारा.

Options:
1. 12
2. \( \frac{1}{3} \)
3. \( \frac{-1}{3} \)
4. \( \frac{2}{3} \)
If \( a + b + c = 0 \), then find the value of \( \frac{(b+c)^2}{3bc} + \frac{(c+a)^2}{3ca} + \frac{(a+b)^2}{3ab} \).

\[ a + b + c = 0 \implies \frac{(b+c)^2}{3bc} + \frac{(c+a)^2}{3ca} + \frac{(a+b)^2}{3ab} = \frac{3(a+b+c)^2}{9abc} = \frac{3 \cdot 0}{9abc} = 0. \]

Options:
1. \( abc \)
2. \( 1 \)
3. \( a + b + c \)
4. \( 1 + abc \)

Question Number: 122  Question Id: 4697501022  Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No  Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

\( R_1 \) & \( R_2 \) are the remainders when polynomials \( f(x) = 4x^3 + 3x^2 - 12ax - 5 \) and \( g(x) = 2x^3 + ax^2 - 6x - 2 \) are divided by \( (x - 1) \) & \( (x - 2) \) respectively. If \( 3R_1 + R_2 = 28 = 0 \), then find the value of \( a \).

\[ f(x) = 4x^3 + 3x^2 - 12ax - 5 \]
\[ g(x) = 2x^3 + ax^2 - 6x - 2 \]
\( (x - 1) \) & \( (x - 2) \) divide \( f(x) \) & \( g(x) \). \( 3R_1 + R_2 = 28 = 0 \), hence, \( a = \ldots \).

Options:
1. \( -9 \)
2. \( \frac{5}{9} \)
3. \( -\frac{5}{8} \)
4. \( \frac{9}{8} \)

Question Number: 123  Question Id: 4697501023  Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No  Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

If \( \alpha, \beta \) are the roots of the equation \( x^2 - 15x + 1 = 0 \), then find the value of \( \left( \frac{1}{\alpha} - 15 \right)^2 + \left( \frac{1}{\beta} - 15 \right)^2 \).

\[ x^2 - 15x + 1 = 0 \] has roots \( \alpha, \beta \). Therefore, \( \left( \frac{1}{\alpha} - 15 \right)^2 + \left( \frac{1}{\beta} - 15 \right)^2 \) is the sum of squares.

Options:
1. \( 225 \)
2. \( 900 \)
3. ✓ 223

4. ✗ 0

Question Number : 124 Question Id : 4697501024 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
Let \( Y = \{ x / x \in N, 1 \leq x \leq 6 \} \). If \( k \) represents any member of \( Y \), then the roster form of \( k \in Y \) but \( 2k \notin Y \) is:
\( Y = \{ x / x \in N, 1 \leq x \leq 6 \} \) यहाँ के । वे \( k \in Y \) और \( 2k \notin Y \) है:

**Options :**
1. ✗ \{2, 3, 5, 6\}
2. ✗ \{5, 6\}
3. ✓ \{4, 5, 6\}
4. ✗ \{3\}

Question Number : 125 Question Id : 4697501025 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
If \( A = \{ x : x^2 - 5x + 6 = 0 \}, B + \{ y : y = 2k, k \in N & 1 \leq y \leq 4 \} \) and \( C = \{ 4, 5 \} \), then \( A \times (B \cap C) \) is:
\( A = \{ x : x^2 - 5x + 6 = 0 \}, B + \{ y : y = 2k, k \in N & 1 \leq y \leq 4 \} \) और \( C = \{ 4, 5 \} \) हैः तो \( A \times (B \cap C) \) हैः

**Options :**
1. ✓ \{(2,4),(3,4)\}
2. ✗ \{(4,2),(4,3)\}
3. ✗ \{(2,4),(3,4),(4,4)\}
4. ✗ \{(2,2),(3,3),(4,4),(5,5)\}

Question Number : 126 Question Id : 4697501026 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The function \( f : A \rightarrow N \) is defined by \( f(k) = \) Highest prime factor of \( k \), where \( A = \{ x / x \in N & 9 \leq x \leq 13 \} \). Find the range of the function \( f \).
\( A = \{ x / x \in N & 9 \leq x \leq 13 \} \) यहाँ के । वे \( k \in N \) और \( 9 \leq x \leq 13 \) हैः तो \( f(k) = \) सबसे ऊँचा प्रारम्भीक का हैः तो \( f : A \rightarrow N \) वे \( k \in N \) और \( 9 \leq x \leq 13 \) हैः तो \( f(k) = \) सबसे ऊँचा प्रारम्भीक का हैः

**Options :**
1. ✗ \{13\}
2. \{3, 5, 11, 13\}

3. \{11, 13\}

4. \{2, 3, 5, 11\}

Question Number : 127 Question Id : 4697501027 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The function \(f: N \to A\) where \(A = \{0, 1\}\) is defined by \(f(x) = \begin{cases} 0 & \text{if } x \text{ is odd} \\ 1 & \text{if } x \text{ is even} \end{cases}\). \(f\) is:

\(A = \{0, 1\}\) तो \(f: N \to A\) हो तो \(f(x) = \begin{cases} 0 & \text{if } x \text{ है सम} \\ 1 & \text{if } x \text{ है विषम} \end{cases}\) है। \(f\) है:

Options:

1. One - One, Onto Function

2. Many - One, Onto Function

3. Many - One, Into Function

4. One - One, Into Function

Question Number : 128 Question Id : 4697501028 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The number of solutions of the equations \(2x_1 - 3x_2 = 5, x_1 + 2x_2 = 7\) is/are:

\(2x_1 - 3x_2 = 5, x_1 + 2x_2 = 7\) के समाधानों की संख्या हैं?

Options:

1. 1

2. 2

3. Infinite

4. 0

Question Number : 129 Question Id : 4697501029 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0.33
Let $A, B$ are two non-empty sets such that $n(A - B) = 56 + m, n(B - A) = 3m$ and $n(A \cap B) = 3m$. If $n(A) = 3[n(B)]$, then find the value of $m$.

$n(A - B) = 56 + m, n(B - A) = 3m$ अनेक $n(A \cap B) = 3m$ के अनुसार $A, B$ की उपसमुच्चय निम्नलिखित

Options:
1. * 2
2. ✔ 4
3. * 6
4. * 8

Question Number: 130 Question Id: 4697501030 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0.33
If $X = \{4^k - 3k - 1; k \in N\}$ and $Y = \{9(K - 1); k \in N\}$, then $X \cup Y$ is equal to:

$X = \{4^k - 3k - 1; k \in N\}$ तथा $Y = \{9(K - 1); k \in N\}$ समान, $X \cup Y$ का संगम निम्नलिखितः

Options:
1. * $X$
2. ✔ $Y$
3. * $N$
4. * $\emptyset$

Question Number: 131 Question Id: 4697501031 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0.33
Let $R_1, R_2$ are two relations defined from $N \times N$ to $Z \times Z$ by $R_1 = \{(x - y, y - x); x, y \in N\}$ and $R_2 = \{(x - y, x + y); x, y \in Z\}$. Then find the number of elements in $R_1 \cap R_2$.

$R_1, R_2$ द्वारा $R_1 = \{(x - y, y - x); x, y \in N\}$ तथा $R_2 = \{(x - y, x + y); x, y \in Z\}$ के अनुसार $N \times N$ तथा $Z \times Z$ के समान $R_1 \cap R_2$ के संगम का संख्या निम्नलिखितः

Options:
1. ✔ 0
2. * 1
3. * 2

Infinite
4. * $\infty$
Question Number : 132 Question Id : 4697501032 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
The relation S is defined by \( S = \{(a, b) : b = |a + 1| & |a| \leq 3, a, b \in \mathbb{Z}\} \). Find the range of S.
\[ S = \{(a, b) : b = |a + 1| & |a| \leq 3, a, b \in \mathbb{Z}\} \]
Options :
1. \( \star \) \( \{-3, -2, 0, 1, 2\} \)
2. \( \checkmark \) \( \{0, 1, 2, 3, 4\} \)
3. \( \star \) \( \{-3, -2, -1\} \)
4. \( \star \) \( \{-3, -2, -1, 0\} \)

Question Number : 133 Question Id : 4697501033 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
In a University of 300 graduate students of Management sector, every graduate student reads 6 magazines and every magazine is read by 50 graduate students. Find the number of magazines.
Options :
1. \( \star \) 12
2. \( \star \) 24
3. \( \checkmark \) 36
4. \( \star \) 48

Question Number : 134 Question Id : 4697501034 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0.33
Identify the composite number from the following.
Options :
1. \( \star \) 397
2. \( \checkmark \) 203
3. \( \star \) 263
4. \( \star \) 277
Question Number : 135 Question Id : 4697501035 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The function \( f: A \rightarrow B \) is defined by \( f(n) = \begin{cases} \frac{n}{2} & \text{if } n \text{ is even} \\ -\frac{n-1}{2} & \text{if } n \text{ is odd} \end{cases} \) where \( A = \{1,2,3,4,\ldots\} \) and \( B = \{0, \pm 1, \pm 2, \pm 3, \pm 4, \ldots\} \). Find the value of \( f^{-1}(-100) \).

\( A = \{1,2,3,4,\ldots\} \) \( B = \{0, \pm 1, \pm 2, \pm 3, \pm 4, \ldots\} \) \( f: A \rightarrow B \) \( f^{-1}(-100) \)

Options :
1. \( 100 \)
2. \( 199 \)
3. \( 201 \)
4. \( 200 \)

---

Question Number : 136 Question Id : 4697501036 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The function \( f: N \rightarrow N \) is defined by \( f(n) = \begin{cases} 2, n = 3k, & k \in \mathbb{Z} \\ 10 - n, n = 3k + 1, & k \in \mathbb{Z} \\ 0, n = 3k + 2, & k \in \mathbb{Z} \end{cases} \). Find the possible value of \( n \) such that \( n \in N: f(n) > 2 \).

\( f: N \rightarrow N \) \( f(n) = \begin{cases} 2, n = 3k, & k \in \mathbb{Z} \\ 10 - n, n = 3k + 1, & k \in \mathbb{Z} \\ 0, n = 3k + 2, & k \in \mathbb{Z} \end{cases} \) \( \{n \in N: f(n) > 2\} \) \( n \)

Options :
1. \( \{3,6,4\} \)
2. \( \{1,4,7\} \)
3. \( \{4,7\} \)
4. \( \{7\} \)

---

Question Number : 137 Question Id : 4697501037 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

For overlapping classes 0-8, 8-16, 16-24, etc. the class mark of the class 8-16 is:


Options :
The mean score of 9 players in a team is 20. If one more player is added to the team the mean becomes 22. Find the score of the 10th player.

ಮುಖ್ಯವಾಗಿ 9 ಪ್ಲೇಯರುಗಳ ಸರಾಸರಿ 20. ಒಂದು ಪ್ಲೇಯರು ಏರಬಹುದು ಸರಾಸರಿ 22 ಮಯಳುತ್ತದೆ. 10 ನ ಪ್ಲೇಯರು ಸರಾಸರಿಯಲ್ಲಿ ಎಣಣಿಸಿಕೊಂಡು.

Options:
1. 20
2. 40
3. 60
4. 80

Find the arithmetic mean of the cubes of first n natural numbers.

ಯುಂವೆನಿಂದ n ನಡುಪು ಗಣಿತದ ಶಾಂತಿಯಲ್ಲಿ ಸರಾಸರಿಯಲ್ಲಿ ಹೊಂದಿರುತ್ತದೆ.

Options:
1. \( \frac{(n + 1)^2}{4n} \)
2. \( \frac{n^2(n + 1)^2}{4} \)
3. \( \frac{n^2(n + 1)}{4} \)
4. \( \frac{n(n + 1)^2}{4} \)
The median of distribution 83, 54, 78, 64, 90, 59, 67, 72, 70, 73 is:

83, 54, 78, 64, 90, 59, 67, 72, 70, 73

Options:
1. ✗ 70
2. ✔ 71
3. ✗ 72
4. ✗ 73

Question Number : 141 Question Id : 4697501041 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If in a frequency distribution, the mean and median are 21 and 22 respectively, then its mode is approximately:

Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.

Options:
1. 11.5
2. 11.0
3. 21.5
4. 21.0

Question Number : 142 Question Id : 4697501042 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

Find the mode of the following distribution.

<table>
<thead>
<tr>
<th>Marks</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of students</td>
<td>3</td>
<td>5</td>
<td>10</td>
<td>6</td>
<td>1</td>
</tr>
</tbody>
</table>

Options:
1. ✔ 6
2. ✗ 10
3. ✗ 8
Find the value of $K$, if the mean of the following distribution is 14.

<table>
<thead>
<tr>
<th>Variable $(x)$</th>
<th>3</th>
<th>4</th>
<th>6</th>
<th>10</th>
<th>$K+3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency $(f)$</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Options:
1. 54
2. 56
3. 57
4. 60

When 20 is subtracted from all the observations, the mean is reduced to 50% of its value. If 2 is added to all the observations, then the mean will be:

Options:
1. 40
2. 42
3. 44
4. 46
When 7 was subtracted from each of the seven individual scores of a student, the following scores resulted: 11, 10, 9, 15, 16, 20, 24. The mean of the original distribution is:

Options:
1. 20
2. 22
3. 18
4. 16

Question Number: 146 Question Id: 4697501046 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

If the median of 31 observations is 50 and if the observations greater than the median are increased by 8, then the median of the new data will be:

Options:
1. 58
2. 50
3. $58 + \frac{50}{31}$
4. $58 - \frac{50}{31}$

Question Number: 147 Question Id: 4697501047 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Single Line Question Option: No Negative Marks Display Text: 1/3 Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0.33

Consider the following distribution of marks of students in an Entrance test. The number of students who scored 0 points is given as x. If the mean is 2.5, then find the missing frequency x.

<table>
<thead>
<tr>
<th>Score (in Points)</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students (Frequency)</td>
<td>x</td>
<td>20</td>
<td>40</td>
<td>40</td>
<td>20</td>
<td>4</td>
</tr>
</tbody>
</table>

Options:
1. x = 1
2. ✗ 0
3. ✔ 4
4. ✗ 3

Question Number : 148 Question Id : 4697501048 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

The average wages of women in a firm is 62 and that of Gents is 52. The average wages of Gents and Women combined is 60. The percentage of Gents in the firm is:

27 x 62 x 52 x 62 महिलांकी गंगुरांकी गंगो 62 महिलांकी गंगुरांकी गंगो 52. महिलांकी गंगुरांकी गंगुरांकी गंगो 60. महिलांकी गंगुरांकी गंगो:

Options :
1. ✔ 20%
2. ✗ 40%
3. ✗ 60%
4. ✗ 80%

Question Number : 149 Question Id : 4697501049 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33

If the mean of the numbers 27 + x, 31 + x, 89 + x, 107 + x, 156 + x is 82, then the mean of 130 + x, 126 + x, 68 + x, 50 + x, 1 + x is:

27 + x, 31 + x, 89 + x, 107 + x, 156 + x 27 + x, 31 + x, 89 + x, 107 + x, 156 + x 82 82, 130 + x, 126 + x, 68 + x, 50 + x, 1 + x

Options :
1. ✗ 55
2. ✗ 65
3. ✔ 75
4. ✗ 85

Question Number : 150 Question Id : 4697501050 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Negative Marks Display Text : 1/3 Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0.33
The salaries per week of the employees working in a pharmaceutical company are provided in the following table.

Find the median of the following distribution, giving your answer correct to two places to decimal.

<table>
<thead>
<tr>
<th>Salaries/Week (Rs)</th>
<th>No. of Employees (F)</th>
<th>Cumulative Frequency (c.f.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-59</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>60-69</td>
<td>40</td>
<td>55</td>
</tr>
<tr>
<td>70-79</td>
<td>50</td>
<td>105</td>
</tr>
<tr>
<td>80-89</td>
<td>60</td>
<td>165</td>
</tr>
<tr>
<td>90-99</td>
<td>45</td>
<td>210</td>
</tr>
<tr>
<td>100-109</td>
<td>40</td>
<td>250</td>
</tr>
<tr>
<td>110-119</td>
<td>15</td>
<td>265</td>
</tr>
</tbody>
</table>

Options:
1. ₹ 80.08
2. ₹ 82.08
3. ₹ 84.08
4. ₹ 81.04