



IBPS | BANK | LIC AAO 2023



MAINS

MAGIC

EPISODE - 08



LIVE 11:30 AM

SHUBHAM MAHENDRAS



UPCOMING ONLINE BATCHES

February 2023

08 FEB 2023

03:00 PM to 05:00 PM

SSC ONLINE LIVE CLASS

BILINGUAL

15 FEB 2023

10:30 AM to 12:30 PM

BANK ONLINE LIVE CLASS

BILINGUAL

15 FEB 2023

06:30 PM to 08:30 PM

BANK ONLINE LIVE CLASS

English & Bengali



www.mahendras.org •  7052477777/7052577777

Real Champs-



Shivangi Gupta 6 days ago

Only 1 follow hw,
Awesome session sir 🙏

👍 1 🗨️ Reply



harsh sharma 6 days ago

Thank you sir amazing sessions 🙏 ab to question bhi Bane lage h hmm se
Vo bhit aaki class karne se....bhout ache questions thank you very much sir 🙏🙏🥰 today homework answer is only
1

👍 1 🗨️ Reply

▼ 🚫 • 1 reply



monika kumari 6 days ago

Only 1
Thank you sir 🙏
Very nice session 🙏🙏
Sir aap ka vishvas he hamari leya motivation se kam nhi hai 🙏🙏🙏

👍 1 🗨️ Reply

▼ 🚫 • 1 reply



DEBASHREE DAN 6 days ago

Ajj ka session bohota accha hai... questions la jaab!!! Sir upka class korke mera math bohota improve hua ! Thank you
sir

Real Champs-



Tanu Jain 6 days ago

Homework Ans is opt A

Thank you sir for this wonderful session 🙏



1



Reply



• 1 reply



abhay singh 6 days ago (edited)

It was a great session sir please continue these sessions 🙏🙏🙏

Answer option A



2



Reply



• 1 reply



Nitu Maurya 6 days ago

Hw ans opt 1

Session bhut acha tha sir .. questions v bnte hai ab .

Thanku sir for amazing session 🙏



1



Reply



• 1 reply



Aalap 6 days ago

Awesome session 🙏

Real Champs-



Surbhi Sinha 6 days ago

Homework question answer 🙌 only 1 follow 🙌 sir aab kya bole maths toh improve hua hai or mains k question phele Banta nhi tha aab smjh araha saare questions or thanks sir hamare saare Confusing duur krne k liye or esa dhamakedar question k liye

👍 1 🗨️ Reply

▼ 🚫 • 1 reply



monika kumari 6 days ago

Total 259

👍 1 🗨️ Reply



Zikra Yasmeen 6 days ago

Option 1

👍 1 🗨️ Reply

▼ 🚫 • 1 reply



Niharika Jha 6 days ago

Homework answer: Only 1

👍 1 🗨️ Reply



Directions: In the given series A, B, C are positive integers that are given in terms of x, y and z which are also positive integers.

A, B, C, D,?

Set - 2.

$$A = x^2y^3 + z$$

$$B = y^7 - x$$

$$C = 2xy - 2$$

$$D = xy - x + y$$

What will come in the place of '?'

Set - 1.

$$x = y^3$$

$$y^{10} = 1024$$

$$z = x^2 + xy + x$$



1. 5

2. 0

3. -2.5

4. -1

5. 10





A shopkeeper bought three items P, Q, and R at different prices and marked them at 25%, 50%, and 40% above their respective cost prices. He sold item P, Q, and R at a profit of a%, b%, and c% respectively.

(1) Value of 'a' can be calculated by taking the positive value of x in $4x^2 - 43x - 255 = 0$

(2) Value of 'b' can be calculated by taking the positive value of y in $3y^2 - 46y - 144 = 0$

(3) Value of 'c' can be calculated by taking the positive value of z in $5z^2 - 64z - 84 = 0$

The marked price of item Q is Rs.102 more than the selling price of item P. Items Q and R together sold at Rs.1801. A discount of Rs.272 was given on the marked price of item Q.

A shopkeeper bought three items P, Q, and R at different prices and marked them at 25%, 50%, and 40% above their respective cost prices. He sold item P, Q, and R at a profit of a%, b%, and c% respectively.

The marked price of item Q is Rs.102 more than the selling price of item P. Items Q and R together sold at Rs.1801. A discount of Rs.272 was given on the marked price of item Q.



What is the value of $3a + 2b - 4c$?



1. 20

2. 25

3. 30

4. 35

5. 40



The following table shows the time taken by three persons (A, B, and C) to complete two different works (P and Q) individually and together.



Table I: Showing time taken in (days) by persons to complete work individually.

Persons	Work P	Work Q
A	2X	4X
B	24	Z = (M + 4)
C	X	12

Table II: Showing time taken in (days) by persons to complete work together.

Persons	Work P	Work Q
A + B	M	16
B + C	Y	K
C + A	4	N

The value of (X) can be found by solving the given quadratic equation.

$$I. x^2 - 11x + 24 = 0$$

Value of (X) = (The largest root of the given equation - 2)

What is the value of (Y + K)?

In a bag, there are some red, black and yellow balls. Sum of black and yellow balls is 9. Probability of selecting two red balls from that bag is $\frac{1}{7}$ which is 250% of the probability of selecting two black balls. Find number of yellow balls in that bag if the number of black balls is even ?



- 1. 3
- 2. 4
- 3. 5
- 4. 8
- 5. 7





Direction: Each question contains a statement followed by Quantity I, II and III. Read the information clearly and answer your questions accordingly.

The options represent the relations between these three quantities

A) $>$ B) $<$ C) $=$ D) \leq E) \geq

Quantity I: If the compound interest accrued on an amount of Rs. 15000 in two years is Rs. 3000, what is the rate of interest per annum?

Quantity II: The area of a rectangle is equal to the area of a circle whose radius is 6 cm. If breadth of the rectangle is 10 cm, what is its length?

Quantity III: 65% of $120 + y\%$ of $150 = 105$

1. B, B

2. B, C

3. B, A

4. E, B

5. B, D





A solid sphere is melted down and three right circular cylinders X,Y and Z are formed. Volume (in M^3) of each cylinder is different.

Table given below shows the difference of radius (in M) of each cylinder from that of the sphere, from which they are formed.

Note:- Ratio of volume of the sphere to its surface are = 7: 1



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

Find the sum of volume of cylinder X and Y if the height of both are equal to Radius of the cylinder X ?



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

1. 10780 m³
2. 12780 m³
3. 15780 m³
4. 16780 m³
5. 18780 m³

Cylinder Z is melted down and 231 cubes of equal volume are formed. If the side of each cube is 4 M, then, find the height of cylinder Z ?



Cylinders	Difference between radius of sphere and radius of cylinder
X	7
Y	14
Z	5

1. 12.22M
2. 11.11M
3. 19.26M
4. 18.37M
5. 20.22 M



Direction: Study the following table given below carefully and answer the question based on it.

The table given below shows the data about the university election conduct in every three years.

Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9



If in 2003, the number of valid votes of males is 540 then what will be the ratio of valid votes of male to female in 2003?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 9 : 10
2. 10 : 9
3. 7 : 9
4. 9 : 7
5. 5 : 4



Total number of valid votes casted by female in 2009 is 550 then find the number of invalid votes in 2009?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 430
2. 450
3. 470
4. 490
5. 510



If total number of casted votes in 2006 is 50% more than in 2000 then find the number of valid votes in 2000?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 860
2. 920
3. 960
4. 1050
5. 1120



The difference of valid votes of male to female in 2012 is 240 then finds the number of invalid votes in 2012 election?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 450
2. 480
3. 490
4. 520
5. 640



In 2006 if the ratio of valid votes to male to female is 3 : 2 then the number of valid votes of female is what percentage of total casted votes in 2006?



Year	Total number of votes cast	Total number of invalid votes	Ratio of valid votes cast by male to females
2000	-	8%	-
2003	1200	5%	-
2006	1500	10%	-
2009	1750		7 : 5
2012	-	20%	7 : 9

1. 25%
2. 30%
3. 36%
4. 45%
5. 50%