

Placement Questions / IBM

IBM Placement Papers with Solution : Solved Question Page 13

IBM

Select Another Category ▼

Select Another Topic ▼

Keep an EYE (0)

Solved Question (162)

IBM Interview Experience (27)

UnSolved Question (1479)

Pages: 17 First Prev 9 10 11 12 13 14 15 16 17 Next Last

Advertisements



AMCAT Test
For Fresher Hiring

Get Started

🚩 (#M40013662) IBM QUESTION IBM

KEEP AN EYE 🐼

2,9,5,49,11,169.....?

Asked In IBM

Solved 👤 Swatantra Jain

Is this Puzzle helpful? (38) (9)

👤 kundan (4 years ago)

💬 Read Solution (14)

📝 Submit Your Solution
Number Series

SWATANTRA JAIN (4 YEARS AGO)



prime series with alternate squares:-
 $2, 3^2, 5, 7^2, 11, 13^2,$
 next no. = 17

Is this solution Helpful? **Yes (111)** | **No (8)**

HARIKA (4 YEARS AGO)



prime number series: 2,3,5,7,11,13,17,19....

By observing the given series, the alternate series in the prime number series is square hence....

 $2, 3^2, 5, 7^2, 11, 13^2, 17, 19^2 \dots \Rightarrow 2, 9, 5, 49, 11, 169, 17, 361$ Is this solution Helpful? **Yes (9)** | **No (2)**

ANKIT CHAUDHARY (4 YEARS AGO)



next no is 20
 $2, 3^2, 5, 7^2, 11, 13^2, 20, 22^2$
 check $2+3=5, 5+6=11, 11+9=20$
 check $3^2+4=7^2, 7^2+6=13^2, 13^2+9=22^2$

Is this solution Helpful? **Yes (9)** | **No (17)**

RAJANESH.K (4 YEARS AGO)

2 series
 $2, 5, 11$
 $3^2, 7^2, 13^2$
 missing term belongs to first series
 $2, (2+3), (5+6), (11+12)$ so my answer is 23

Is this solution Helpful? **Yes (8)** | **No (6)**

MUTHU MADHAVAN (3 YEARS AGO)



prime series with alternate squares:-
 $2, 3^2, 5, 7^2, 11, 13^2,$
 next no. = 17

Is this solution Helpful? [Yes \(6\)](#) | [No](#)**AMIT KUMAR SRIVASTAVA (4 YEARS AGO)**

$$2*2+1=5$$

$$5*2+1=11$$

$$11*2+1=23$$

Is this solution Helpful? [Yes \(5\)](#) | [No \(5\)](#)**ANILKUMAR (2 YEARS AGO)**

2,9,5,49,11,169.....?

ans: $2, 3^2, 5, 7^2, 11, 13^2, (17)$

all are in prime numbers difference is middle numbers is squares in that order 17 is next number

Is this solution Helpful? [Yes \(3\)](#) | [No](#)**SUMIT NAGAR (2 YEARS AGO)**

$$2, 3*3, 5, 7*7, 11, 13*13, 17$$

answer is 17 .

Is this solution Helpful? [Yes \(3\)](#) | [No](#)**SAMPURNA (3 YEARS AGO)**

$$2, 3^2, 5, 7^2, 11, 13^2$$

$$2+3 = 5$$

$$5+7 = 11$$

$$11+13 = 24$$

so, next no. is 24.

Is this solution Helpful? [Yes \(1\)](#) | [No \(12\)](#)**PATTISAPU.LAKSHMIDEPTHI (2 YEARS AGO)**

prime numbers are 2,3,5,7,11,13,17,19.....

2

$$3^2=9$$

5

$$7^2=49$$

11

$$13^2=169$$

answer is

17

$$19^2=361$$

.

.

.

.

.

Is this solution Helpful? [Yes \(1\)](#) | [No](#)**KARY (1 YEAR AGO)**

ans is 17.

Is this solution Helpful? [Yes](#) | [No \(1\)](#)**PAOLO OTTOLINO (10 MONTHS AGO)**

My answer is 18.

The sequence could be described as 'x,y,(y/x+n),...';

where:

$$n=1(2,9.5), 2(5,49,11), 3(11,169,?)$$

Is this solution Helpful? [Yes](#) | [No \(4\)](#)**NANDINI (1 MONTH AGO)**sequence of prime numbers with alternate squares..... $2, 3^2, 5, 7^2, 11, 13^2, 17$Is this solution Helpful? [Yes](#) | [No](#)**PRIYA CHAUHAN (1 MONTH AGO)**

$$2, 3^2, 5, 7^2, 11, 13^2, 17$$

ans is 17

Is this solution Helpful? [Yes](#) | [No](#)

(#M40013659) IBM QUESTION IBM

KEEP AN EYE

9,4,16,6,36,21,44.....?

Asked In [IBM](#)

[kundan](#) (4 years ago)

Solved [NEERAJA REDDY](#)

[Read Solution](#) (5)

Is this Puzzle helpful? (5) (1)

[Submit Your Solution](#)
Number Series

NEERAJA REDDY (4 YEARS AGO)

According to the series

$$9-4=5$$

$$16-6=10$$

$$36-21=15$$

According to this the difference between the next two numbers should be 20..

Hence the next number in the series is 24.

Is this solution Helpful? [Yes](#) (27) | [No](#)

ANKIT CHAUDHARY (4 YEARS AGO)



not 44 it is 441 and then ans is 421

Is this solution Helpful? [Yes](#) (14) | [No](#) (7)

ABHISHEK SHRIVASTAVA (4 YEARS AGO)



answer is 24

because here is diff.

5,10,15 and 20

Is this solution Helpful? [Yes](#) (4) | [No](#)

VIRENDRA RAGHUWANSHI (4 YEARS AGO)



$$4+5=9$$

$$6+10=16$$

$$21+15=36$$

$$24+20=44$$

Is this solution Helpful? [Yes](#) (2) | [No](#) (2)

GAYATHRI MURUGESAN (4 MONTHS AGO)

$$9-4=5$$

$$16-6=10$$

$$36-21=15$$

so $44-x=20$ then $x=24$

Is this solution Helpful? [Yes](#) | [No](#) (1)

Advertisements



AMCAT Test
For Fresher Hiring

[Get Started](#)

[#M40013645](#) IBM QUESTION Number Series

KEEP AN EYE

1370,1320,1070,-180.?

Asked In [IBM](#)

[sai prathap](#) (4 years ago)

Solved [Garima](#)

[Read Solution](#) (6)

Is this Puzzle helpful? (17) (4)

[Submit Your Solution](#)
Sequence and Series

GARIMA (4 YEARS AGO)

1370,1320,1070,-180, -6430

$$1370-5*10=1320$$

$$1320-5*5*10=1070$$

$$1070-5*5*5*10=-180$$

$$-180-5*5*5*5*10=-6430$$

n th term for $n > 1$

$$T_n = 1370 - 10 * 5^{(n-1)}$$

RAJESH KUMAR SETHI (4 YEARS AGO)

Answer is: -6430

solution:

$$1370 - 1320 = 50$$

$$1320 - 1070 = 250 (5*50)$$

$$1070 - (-180) = 1250 (5*250)$$

$$-180 - (x) = 6250 (5*1250)$$

$$-x = 180 + 6250 = 6330$$

$$x = -6430$$

Is this solution Helpful? [Yes \(15\)](#) | [No \(5\)](#)**GARIMA (4 YEARS AGO)**nth term for $n > 1$

$$T_n = T_{(n-1)} - 10 * 5^{(n-1)}$$

Is this solution Helpful? [Yes \(5\)](#) | [No \(3\)](#)**MATH LOVERS (4 YEARS AGO)**

ans is -6430

diff. of continuous digit is 50, 250, 1250..they are in GP

so next diff must be 6250...

$$\text{hence next digit is } -180 - 6250 = -6430$$

Is this solution Helpful? [Yes \(4\)](#) | [No \(5\)](#)**ABHISHEK SHRIVASTAVA (4 YEARS AGO)**

ans is -6430

bcz there is diff...50,250,1250 and next will be 6250

$$\text{so } -180 - 6250 = -6430$$

Is this solution Helpful? [Yes \(4\)](#) | [No \(2\)](#)**DUNDI (4 YEARS AGO)**

-6430

$$1370 - 50 = 1320$$

$$1320 - 5 * 50 = 1070$$

$$1070 - 5 * 5 * 50 = -180$$

$$-180 - 5 * 5 * 5 * 50 = -6430$$

Is this solution Helpful? [Yes \(3\)](#) | [No \(2\)](#)**#M40013642 IBM QUESTION Number Series**

KEEP AN EYE

9,4,16,6,36,21,441?

Asked In [IBM](#)[sai prathap](#) (4 years ago)Solved [Garima](#)[Read Solution \(4\)](#)Is this Puzzle helpful? [Yes \(11\)](#) [No \(3\)](#)[Submit Your Solution](#)
Number Series**GARIMA (4 YEARS AGO)**

9,4,16,6,36,21,441, 421

$$9 - 5 = 4$$

$$4^2 = 16$$

$$16 - 10 = 6$$

$$6^2 = 36$$

$$36 - 15 = 21$$

$$21^2 = 441$$

$$441 - 20 = 421$$

Is this solution Helpful? [Yes \(31\)](#) | [No \(4\)](#)**USHA CHOLLETTI (3 YEARS AGO)**

$$9 - 4 = 5$$

$$16 - 6 = 10$$

$$36 - 21 = 15$$

$$\text{so } 441 - x = 20 \Rightarrow x = 421$$

Is this solution Helpful? [Yes \(5\)](#) | [No \(1\)](#)

KUMARI (2 YEARS AGO)

421
 $9-5=4$
 $16-10=6$
 $36-15=21$
 $441-20=421$
 i.e we can subtract 5,10,15,20 from the previous answer

Is this solution Helpful? **Yes (2)** | **No****DEEPAK KUMAR (1 YEAR AGO)**

$9-4=5,$
 $16-6=10,$
 $36-21=15;$
 $441-x=20;$
 $x=421(ans)$

Is this solution Helpful? **Yes** | **No****#M40013641 IBM QUESTION Number Series**

KEEP AN EYE

8,0.5,16,4,15,0.3,50,4.5,6,0.2,30,?

Asked In **IBM** **sai prathap** (4 years ago)Solved **Garima** **Read Solution (5)**Is this Puzzle helpful? (30) (5) **Submit Your Solution Sequence and Series****JAYASHREE BAL (4 YEARS AGO)**

make first 4 nos a pair, 2nd 4 no a pair n 3 rd 4nos a pair .den we wil get
 $8,0.5,16,4$ i.e $8/0.5=16$ & $8*0.5=4$
 similarly d 2nd pair also n finally
 $6/0.2=30$ & $6*0.2=1.2$.
 so d ans is 1.2

Is this solution Helpful? **Yes (84)** | **No (5)****GARIMA (4 YEARS AGO)**

next term is 5.0
 $8,0.5,16,4,15,0.3,50,4.5,6,0.2,30,5$
 $8,0.5,16,$.. $8/0.5=16$
 next term is..... 4.
 $15/0.3= 50$
 next term is..... 4.5
 $6/0.2= 30$
 Next term is..... 5

Is this solution Helpful? **Yes (30)** | **No (18)****MONIKA GAUTAM (2 YEARS AGO)**

next term is 1.2
 $8,0.5,16,4,15,0.3,50,4.5,6,0.2,30,5$
 .
 $8/0.5=16$
 $8*0.5=4$.
 $15/0.3= 50$
 $15*0.3=4.5$
 $6/0.2= 30$
 $6*0.2=1.2$

Is this solution Helpful? **Yes (9)** | **No (4)****AMARDEEP VERMA (2 YEARS AGO)**

$4)33+8=41, 46+21=67, 72+47=119$
 $41+5=46, 67+5=72, 119+5=124$
 $8+13=21, 21+(13*2)=47, 47+(13*3)=86$
 answer=86 (any dought)

Is this solution Helpful? **Yes (3)** | **No (14)****ANKIT SARKAR (1 YEAR AGO)**

answer is 5

Is this solution Helpful? **Yes (3)** | **No (4)****#M40013630) IBM QUESTION NUMBER SERIES**KEEP AN EYE 

3.274,3.2744,3.3184,?

Asked In **IBM** **saikishore** (4 years ago)Solved  **Garima** **Read Solution (5)**Is this Puzzle helpful? (8) (1) **Submit Your Solution**
Letter Series**HAO WANG (4 YEARS AGO)**

$$\begin{aligned}
 3.2744 - 3.274 &= 0.004 \\
 3.3184 - 3.2744 &= 0.044 \\
 x - 3.3184 &= 0.444 \\
 x &= 3.7624
 \end{aligned}$$

Is this solution Helpful? **Yes (15)** | **No (16)****SIVARAM (4 YEARS AGO)**

$$\begin{aligned}
 3.2744 - 3.274 &= 0.0004 \\
 3.3184 - 3.2744 &= 0.044 \text{ (i.e } 0.0004 \times 110) \\
 8.1584 - 3.3184 &= 4.84 \text{ (i.e } 0.044 \times 110) \dots\dots
 \end{aligned}$$

Is this solution Helpful? **Yes (10)** | **No (2)****GARIMA (4 YEARS AGO)**

3.274,3.2744,3.3184,?

Next number will be $3.3184 + 44.4 = 47.7184$

as


$$\begin{aligned}
 3.274 + 0.0004 &= 3.2744, \\
 3.2744 + 0.044 &= 3.3184, \\
 3.3184 + 44.4 &= 47.7184
 \end{aligned}$$

Is this solution Helpful? **Yes (7)** | **No (23)****DALIA DAS (3 YEARS AGO)**


$$\begin{aligned}
 3.2744 - 3.274 &= .0004 \\
 3.3184 - 3.2744 &= .044 = .0004 \times 110 \\
 x - 3.3184 &= 4.84 = .044 \times 110 \\
 \text{then } x &= 3.3184 + 4.84 = 8.1584
 \end{aligned}$$

Is this solution Helpful? **Yes (6)** | **No (1)****MAYURESH SRIVASTAVA (4 YEARS AGO)**

@garima: why 44.4??

Is this solution Helpful? **Yes (2)** | **No (2)****#M40009675) IBM QUESTION**KEEP AN EYE 

A ball falls from a height of 8ft , bounces back to half the distance & continues till it comes to rest.what is the total distance travelled by the ball?

Asked In **IBM** **Devendra Marghade** (4 years ago)Solved  **Vignesh** **Read Solution (8)**Is this Puzzle helpful? (54) (5) **Submit Your Solution**
Time Distance and Speed**VIGNESH (4 YEARS AGO)**



Total distance traveled by the ball = 24ft.

$$\begin{aligned} \text{Distance} &= 8+2(4+2+0.5+0.25+\dots) \\ &==> 8+2*4/(1-1/2) \\ &==> 8+16 = 24 \end{aligned}$$

Is this solution Helpful? **Yes (67)** | **No (22)**

JYOTISH R (4 YEARS AGO)



$$\begin{aligned} &8+(\text{twice the sum of infinite terms of the GP } 4,2,1,0.5,\dots) \\ &8+2*(4/(1-.5)) \\ &8+2*8=8+16=24 \end{aligned}$$

Is this solution Helpful? **Yes (25)** | **No (6)**

SELVA (4 YEARS AGO)



23.50 feet
1st dropped 8ft
2nd jump 4ft(4+4)
3rd jump 2ft(2+2)
4th jump 1ft(1+1)
5th jump .5ft(.5+.5)
6th jump .25(.25+.25)
.....

Is this solution Helpful? **Yes (9)** | **No (12)**

REDDY (4 YEARS AGO)

distance=8+4+2+1+.5+.25+.125+.....
(this value never exceeds 16)
approximately = 16

Is this solution Helpful? **Yes (5)** | **No (18)**

PRATHIMA (4 YEARS AGO)

ans 24
8+4+4+2+2+1+1+.5+.5+.25+.25+0.125+0.125+0.0625+0.0625+.....

Is this solution Helpful? **Yes (4)** | **No (1)**

MOGAL SAMRAT (4 YEARS AGO)

ans: 16
the form is:8+4+2+1+1/2+..... it is in GP infinite loop
ie $8/(1-1/2)=16$

Is this solution Helpful? **Yes (3)** | **No (3)**

NITIN TYAGI (4 YEARS AGO)

23.50 feet
1st dropped 8ft
2nd jump 4ft(4+4)
3rd jump 2ft(2+2)
4th jump 1ft(1+1)
5th jump .5ft(.5+.5)
6th jump .25(.25+.25)=23.5

Is this solution Helpful? **Yes (2)** | **No (11)**

SHIRLEY (4 YEARS AGO)

$$8+4+2+1=15\text{ft}$$

Is this solution Helpful? **Yes (1)** | **No (42)**

🚩 (#M40005610) IBM QUESTION Permutation and combinations

KEEP AN EYE

How many ways can 10 letters be posted in 5 post boxes, if each of the post boxes can take more than 10 letters?

Solution

We can place any letter in any of the letter box so total methods
= $5*5*5\dots\dots 10 \text{ times} = 5^{10}$

Like manish sir answer on facebook.

[Like](#) [Share](#) You and 9.9K others like this.



Asked In [IBM](#)

(5 years ago)

[Solved](#)

[Read Solution \(3\)](#)

Is this Puzzle helpful? (29) (8)

[Submit Your Solution](#)
Permutation and Combination

ANKIT (3 YEARS AGO)

1st letter can be posted by 5 ways
similarly second can be posted by 5 ways
..
.... so 5^{10}

Is this solution Helpful? [Yes \(3\)](#) | [No \(1\)](#)

RAJ GUPTA (2 YEARS AGO)

Ans: 50

10 letter can be submitted in 10 ways in 1st post box + 10 letters in second post box +

Is this solution Helpful? [Yes](#) | [No](#)

UTHRA MURUGESAN (10 MONTHS AGO)

Each of the 10 letters can be posted in any of the 5 boxes.

So, the first letter has 5 options, so does the second letter and so on and so forth for all of the 10 letters.

i.e. $5 \times 5 \times \dots \times 5 \times 5 \times \dots \times 5$ (up-to 10 times)

$= 5^{10}$

Is this solution Helpful? [Yes](#) | [No \(1\)](#)

(#M40005609) IBM QUESTION Permutation and combinations

KEEP AN EYE

In how many ways can the letters of the word EDUCATION be rearranged so that the relative position of the vowels and consonants remain the same as in the word EDUCATION?

Solution

There are 5 vowels and 4 consonants so total no of methods on the basis of given conditions are $(5 \times 4 \times 3 \times 2 \times 1) \times (4 \times 3 \times 2 \times 1) = 120 \times 24 = 2880$

Like manish sir answer on facebook.

[Like](#) [Share](#) You and 9.9K others like this.



Asked In [IBM](#)

(5 years ago)

[Solved](#)

[Read Solution \(3\)](#)

Is this Puzzle helpful? (27) (3)

[Submit Your Solution](#)
Permutation and Combination

AMIT KUMAR (3 YEARS AGO)



There are 5 vowels and 4 consonants so total no of methods on the basis of given conditions are $(5 \times 4 \times 3 \times 2 \times 1) \times (4 \times 3 \times 2 \times 1) = 120 \times 24 = 2880$
rearrangement $= 2880 - 1 = 2879$

Is this solution Helpful? [Yes \(4\)](#) | [No \(3\)](#)

CHETNA (11 MONTHS AGO)

5 vowels, 4 consonants in the word EDUCATION.

5 vowels can be placed at 5 different places, and 4 different consonants can be placed at 4 different places.

so 1st vowels can be placed at the following places means 5 choices it has _D_C_T_ _N

then 2nd vowel has 4 choices, 3rd will have 3 choices,

same for consonants,

so letters that can be formed are $5! \times 4!$

120*24
2880


Is this solution Helpful? **Yes (1)** | **No**

JITHIN KP (1 YEAR AGO)

here there are 5 vowels and 4 consonants so
4 vowels + 1 pack of vowels
5 letters
inside the pack of vowels it can come in 5! ways
so 5!*5! will be the answer

Is this solution Helpful? **Yes** | **No (1)**

 (#M40005608) **IBM QUESTION** Permutation and combinations

KEEP AN EYE 

When four fair dice are rolled simultaneously, in how many outcomes will at least one of the dice show 3?

Solution

Total no. of outcomes = $6*6*6*6 = 1296$
No. of odd outcomes (if no 3 obtained) = $5*5*5*5 = 625$
so favourable outcomes = $1296-625 = 671$

Like manish sir answer on facebook.

You and 9.9K others like this.



Asked In **IBM**

(5 years ago)

Solved

Is this Puzzle helpful? (9) (2)

 [Submit Your Solution](#)
Permutation and Combination

Keep an EYE (0)

Solved Question (162)

IBM Interview Experience (27)

Unsolved Question (1479)

Pages: **17** [First](#) [Prev](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [Next](#) [Last](#)

0 Comments **m4maths**

 **Login** ▾

 Recommend  Share

Sort by Best ▾



Start the discussion...

Be the first to comment.

ALSO ON M4MATHS

TCS Numerical Ability - Simple Interview Questions with Answers

1 comment • 10 months ago •

elitmus Logical Reasoning - Letter Series Question with Solutions




1 comment • 9 months ago •

UST GLOBAL WRITTEN TEST Logical Reasoning Questions and Answer : Solved Question

1 comment • 10 months ago •

RRB General Ability Questions with Answers : Solved Question

1 comment • 10 months ago •

 [Subscribe](#)  [Add Disqus to your site](#) [Add Disqus Add](#)  [Privacy](#)

Advertisements