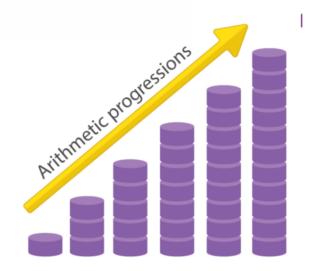


## MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)



# ARITHMETIC PROGRESSIONS



To Download All Topics
https://www.hekorba.in/download

#### This softcopy belongs to:

Heights Education | Top Coaching Institute in Korba Classes : VII, VIII, IX, X, XI & XII Below Overbridge Korba - 8234027591



Material Curated by
Er. Sonal Agrawal Sir
Ex. Scientist, BARC Mumbai



#### 10th - Maths

SN					Marks
1	flags or 2 m. The respon- carry or (a) 62	n the straight passage of the e flags are stored at the pos sibility of placing the flags. R nly one flag at a time. What is m	o beautify the school on the Annual Day by fixing a school. They have 27 flags to be fixed at intervisition of the middle most flag. Ruchi was given the Ruchi kept her books where the flags were store is the maximum distance she travelled carrying a (b) 26 m	rals of every e d. She could	3
	(c) 46	m	( d) 52 m		
					5
	watche	d 650 movies in the 15th ye	spent great time binge watching during lockdow ar. Every year he watched 10 movies less than th ns using the given information		
	2	Does the above situation (a) YES	form an A.P.? (b) NO	1	
	3		( b) NO	1	

		(a) 560 movies (c) 550 movies	( b) 540 movies ( d) None of the above		
		, , , , , , , , , , , , , , , , , , , ,	. ,		
	5	In which year did he watche		1	
		(a) 12th year	( b) 13th year		
		(c) 11th year	( d) None of the above		
	6	Is binge watching such a gr	reat number of movies good for health?	1	
		(a) YES	( b) NO		
7	Find the	e sum of the first 40 positive i	integers divisible by 6.		3
	(a) 491	10	(b) 4915		
	(c) 491	8	( d) 4920		
8	Which t	erm of the sequence -1,3,7,1	1, is 95 ?		1
	(a) 10		(b) 15		
			( 6) 10		
	(c) 20		(d) 25		
	There a premise nearest wall to t	es. All the trees are planted in t tree is 10 m.The gardener st the farthest one and comes. F		m the t to the and refills	5
	There a premise nearest wall to t	es. All the trees are planted in tree is 10 m.The gardener stone farthest one and comes. He ket and waters the next. Answers the A.P. formed in tereach time he waters the trees.	of 5m from the wall planted by a gardener in the the line of the wall. The distance of the wall from the trees from the tree nearest watering all the trees from the tree nearest waters each tree and comes back to the tap a ver the following questions using the given passes of the distance covered by the gardener see.	m the t to the and refills	5
	There a premise nearest wall to this buck	es. All the trees are planted in tree is 10 m.The gardener state farthest one and comes. Extend waters the next. Answers the A.P. formed in tereach time he waters the tree (a) 5, 10, 15 and so on	of 5m from the wall planted by a gardener in the the line of the wall. The distance of the wall from the tree neares he watering all the trees from the tree neares he waters each tree and comes back to the tap a ver the following questions using the given passes of the distance covered by the gardener see.  (b) 10, 20, 30 and so on	m the t to the and refills sage.	5
	There a premise nearest wall to this buck	es. All the trees are planted in tree is 10 m.The gardener stone farthest one and comes. He ket and waters the next. Answers the A.P. formed in tereach time he waters the trees.	of 5m from the wall planted by a gardener in the the line of the wall. The distance of the wall from the tree neares he watering all the trees from the tree neares he waters each tree and comes back to the tap a ver the following questions using the given passes of the distance covered by the gardener see.  (b) 10, 20, 30 and so on	m the t to the and refills sage.	5

		( a) 5, 10, 15 and so on	(b) 10, 20, 30 and so on		
		( c) 10, 15, 20 and so on	( d) 20, 30, 40 and so on		
	11	How much distance the garner need: (a) 160 m (c) 180 m	s to travel to water the 15th tree? (b) 170 m (d) 190 m	1	
	12	What is the total distance required to sixth tree? (a) 230 m (c) 250 m	be covered in order for watering the (b) 240 m (d) 270 m	1	
	13	What is the total distance covered by (a) 3400 m (c) 3600 m	the gardener? (b) 3500 m (d) 3700 m	1	
14	subseq their se	uent month, they produce a new pair. E	eir first month. In the second, and every ach new pair of rabbits produce a new panonth. Assuming no rabbit dies, the num ( b) 8 ( d) 21	air in	2
15	In an AP (a) 8	given a = 8, $a_n$ = 62, $S_n$ = 210, find n.	( b) 7		2



## HEIGHTS EDUCATION

## Classes: VIIIVIIIIIXIXIXIIXII(CBSE)



Q SEARCH



Er. Sonal Kumar Agrawal

■B.E., M.Tech.



Er. Neha Agrawal

B.E., M.Tech.

**Renowned Faculty Raipur** 

And Team

## **Transport Facility Available**





**(2) (2)** 8234027591







HEIGHTS EDUCATION KORBA https://www.hekorba.in

	(c) 5	(d)6			
16	Is the following an AP? – 10, – (	6, - 2, 2,	1		
	(a) YES	( b) NO			
17	A sequence is said to be finite or infinite accordingly as it has a finite or infinite number of terms. State true or false.				
	(a) TRUE	(b) FALSE			
18	The first term of an AP is 3, the number of terms in A.P	last term is 83 and the sum of all its terms is 903. Find the	3		
	(a) 19	(b) 20			
	(c) 21	(d)4			
19	What is the common difference	e of an AP in which $a_{27}-a_{7}=84$ ?	1		
	(a) 6	(b)7			
	(c) 4.2	(d)3			
20	An AP consists of 50 terms of which 3rd term is 12 and the last term is 106. Find the 29th term.				
	(a) 67	(b) 58			
	(c) 61	( d) 64			
21	The sum of four consecutive numbers in an AP is 32 and the ratio of the product of the first and the last terms to the product of the two middle terms is 7 : 15. Find the numbers				
	(a) -2, 6, 10, 14	(b)-2,-6,-10,-16			
	(c) 2, 6, 10, 14.	( d) -2, 6, -10, 14			
22	1, 2, 3, 4, 5, 6, Is this a sequence ?				
	(a) YES	( b) NO			
23	Check whether the list of number	pers defined by the nth term $t_n$ = 5+ 6n is an AP or not.	2		
	(a) YES	( b) NO			



24	A, B, then (A + B) is equal to?	ommon difference and its first three terms are 8,	2	
	(a) 0	(b)-1		
	(c) 1	(d) 2		
25	Assertion: The first term of an AP is m and its c 10p. Reason: In an AP, $S_n-S_{n-1}=a_n$ .	ommon difference is p, then the 13th term is a+	2	
	(a) If both Assertion and Reason are correct and Reason is the correct explanation of Assertion.	(b) If both Assertion and Reason are correct, but Reason is not the corect explanation of Assertion.		
	( c) If Assertion is correct but Reason is incorrect.	( d) If Assertion is incorrect but Reason is correct.		
26	Let a be a sequence defined by $a_1=1, a_2=1$ value of $rac{a_4}{a_3}$ is ?	$1$ and $a_n=a_{n-1}+a_{n-2}$ for all $n  imes 2$ , then the	2	
	(a) $\frac{2}{3}$	( b) $\frac{5}{4}$		
	(c) $\frac{4}{5}$	(d) $\frac{3}{2}$		
27	If the 3rd and the 9th terms of an AP are 4 and		3	
	(a) 5th (c) 7th	( b) 6th ( d) 4th		
28	Find where 0 (zero) is a term of the AP 40, 37, 3	34. 31	1	
	(a) 14th	(b) 12nd		
	(c) no term	(d) 11st		
29	A list of numbers arranged in a definite order according to some definite rule, is called a			
	(a) Series	(b) Sequence		
30	Assertion : Arithmetic mean between 8 and 12 Reason : Arithmetic mean between two numbe		1	
	(a) Both A and R are true and R is the correct explanation of A.	(b) Both A and R are true but R is not the correct explanation of A.		
	(c) A is true but R is false.	(d) A is false but R is true.		

31	Find the first four terms of an AP, whose first term is -2 and the common difference is -2.				
	(a) -2, -4, -6, -8	(b) -2, -4, -6, -10			



Kriti started saving money for her new project. She started saving Rs. 24 for the first month, Rs. 30 in the second month, Rs. 36 in the third month and so on. She continues to save in this manner from quite some time.

32	(a) An A.P. with a=24 and d=	for the pattern followed by Krit?  (b) An A.P. with a=30 and d=6  (d) None of the above	1		
33	In which month will she save	Rs. 66?	1		
	(a) 6	(b) 8			
	(c) 9	( d) 10			
34	What will be the amount be saved by her in 15th month?				
	(a) Rs. 105	(b) Rs. 102			
	(c) Rs. 108	( d) Rs. 114			
35	What is the common differen month?	ce between the savings made by Kriti every	1		
	( a) Rs. 5	(b) Rs. 6			
		( d) Rs. 8			

	36 Does savings help on a later not (a) YES	re? 1   1			
	37 Which values do you learn from (a) Savings are good (c) All of the above	Kriti? 1 (b) Futurisitic Approach			
38		nd the sum of the first seven terms of the same AP is is AP is 235, find the sum of its first twenty terms.	2		
	(a) -970	(b) 970			
	(c) 940	(d) 907			
39	Find the sum of the following arithmetic p	rogression 50, 46, 42, to 10 terms.	1		
	(a) 320	(b) 144			
	(c) 525	(d) 162			
40	Assertion: If Sn is the sum of the first n terms of an A.P., then its nth term an is given by $a_n=S_n-S_{n-1}$ Reason: The 10th term of the A.P. 5, 8, 11, 14, is 35  (a) Both Assertion and Reason is correct and (b) Both Assertion and Reason is correct and				
	reason is correct explanation of Asse				
	( c) Assertion is true but Reason is false.	( d) Both Assertion and Reason is False			
41	Find the sum of the first 1000 positive int		1		
	(a) 500100	(b) 500500			
	(c) 501000	( d) None of the above			
42	100th terms is 100, what is the difference		2		
	(a) 80	(b) 85			
	(c) 95	(d) 100			
			2		



( a) 12250	(b) 12520	
( c) 15220	(d) 15202	





**KAVYA AGRAWAL NEPS 93%** 



**ARSH TIWARI DPS B 92.4%** 



KINJAL MISHRA **KV KUSM 91%** 



SANIYA AGRAWAL **DDM KORBA 89%** 



KABERI KAR JPS KORBA 87%



**SMRITI DONGRE DDM KORBA 87%** 



**VANSHIKA AGRAWAL NEPS KORBA 85%** 



**NIRMALA CBSE 94%** 



**ARSHAD ALI NIRMALA CBSE 93%** 



**ANVESHA AGRAWAL DPS NTPC 89%** 



**ANSHU BHARDWAJ** ST. PALLOTI 88%



SATYAM KUMAR **NEPS 80%** 



**ABHINAV ANAND** ST. PALLOTI 78%



**NIRMALA CBSE 78%** 



**ABHISHEK ANAND** St. PALLOTI 88%



**MUKTI JAISWAL** St. PALLOTI 86%



**VEDANT SINGH** ST. PALLOTI 80%

## **ACHIVERS 2022 - 23 KORBA BRANCH**

### **ACHIVERS BILASPUR BRANCH**



**SHUBODH RANJAN** 

**MANU KASHYAP** 

**RAHUL KUMAR** 

**IIT BOMBEY** 



**ARVIND KUMAR** 

SUSHEELA SINGH

P. CHAITANYA

**IIT BOMBEY** 



**MANISH SINGH** 



AVINASH KR. SAHU **IIT KHARAGPUR** 



**ATUL BANJARE** IIT KHARAGPUR



**VIBHA RANJAN** 



**IISC BANGALORE** 



**ANKUR GUPTA** 

## Sonal Sir With Director ISRO (PS Goel Sir)



- Ex Government Nuclear Scientist Bhabha Atomic Reserch Centre (Mumbai)
- Trained More then 1 lakh students online and Offline Bilaspur, Bhilai, Delhi

Many More ....





#### सीयू के छात्र मनु व मनीष का इंटेल कंपनी में चयन, 21 लाख सालाना पैकेज



बिलासपुर | छात्र मनु कश्यप और मनीष कुमार सिंह का चयन इंटेल प्राइवेट लिमिटेड के लिए हुआ है। कंपनी इन छात्रों को सालाना 21 लाख रुपए का पैकेज दे रही है। ये दोनों छात्र सत्र 2017 में सीयू के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग से बीटेक की उपाधि प्राप्त की। वर्तमान में ये भारतीय प्रौद्योगिकी संस्थान ( आईआईटी ) दिल्ली में एमटेक कर रहे हैं। इंटेल कॉरपोरेशन एक अमेरिकी बहराष्ट्रीय कंपनी है। सिलिकॉन वैली में सांता क्लारा स्थित इस कंपनी का भारत में मख्यालय बेंगलर है।

Our **Students** from Bilaspur Centre

Placed in (intel)





## IMPORTANT MCQ'S - MATHS (10TH GRADE)

## **ARITHMATIC PROGRESSION**

1	2	3	4	5	6	7	8
В	А	А	С	В	В	D	D
9	10	11	12	13	14	15	16
D	С	A	D	В	В	D	А
17	18	19	20	21	22	23	24
А	С	С	D	С	A	A	С
25	26	27	28	29	30	31	32
D	D	A	С	В	A	A	A
33	34	35	36	37	38	39	40
В	С	В	A	С	В	A	С
41	42	43	44	45	46	47	48
В	D	А	-	-	-	-	-