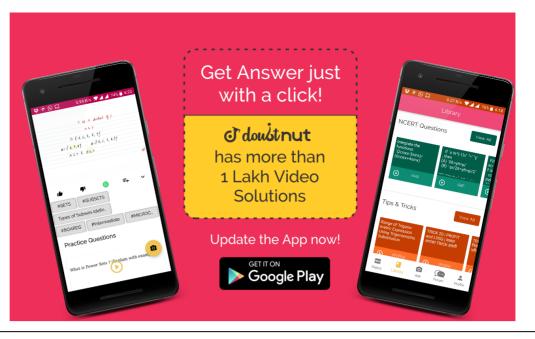


## **CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS**

## **Chapter 5. ARITHMETIC PROGRESSIONS**

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Quae No	Question
Ques No.  1 - 205083	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
	Find the sum of first 25 terms of an A.P. whose
	nth term is $1-4n$
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	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
2 - 205104	Which term of the $AP\!:\!3,15,27,39,\ldots$ will
	be 132 more than its $54^{th}$ term?
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3 - 205274	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
	First the term of an A.P is p and its common
	difference is q. Find its $10th$ term
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For what value of n and the  $n^{th}$  terms of the following two A.Ps the same? 1, 7, 13, 19, (ii) 69, 68, 67,

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4 - 205397

5 - 205410

6 - 205564

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sum to first n terms is 123. Find n and d, the common diffirence.

In  $A.\,P.$  , the first term is 8,  $n^{th}$  term is 33 and

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If a, b and c are three consecutive coefficients terms in the expansion of  $(1+x)^n$ , then find n.

Which term of the  $A.\,P.\,3,\,15,\,27,\,39,\,\ldots$  will

be 120 more than its 21st term?

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7 - 205584



8 - 205629

	The sum of first six terms of an arithmetic
	progression is 42. The ratio of its 10th term to
	its 30th term is 1:3. Calculate the first and the
	thirteenth term of the A.P.
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	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
9 - 205631	If the sum of first p terms of an AP is $ap^2+bp$
	find the common difference
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10 - 205683	In an A.P., the first term is 2, the last term is 29
	and sum of the terms is 155. Find the common
	difference of the A.P.
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11 - 205710	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS

In an AP, the sum of first ten terms is -150 and the sum of its next ten terms is -550 Find the

AP

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If the common difference of an A.P. is 3, then

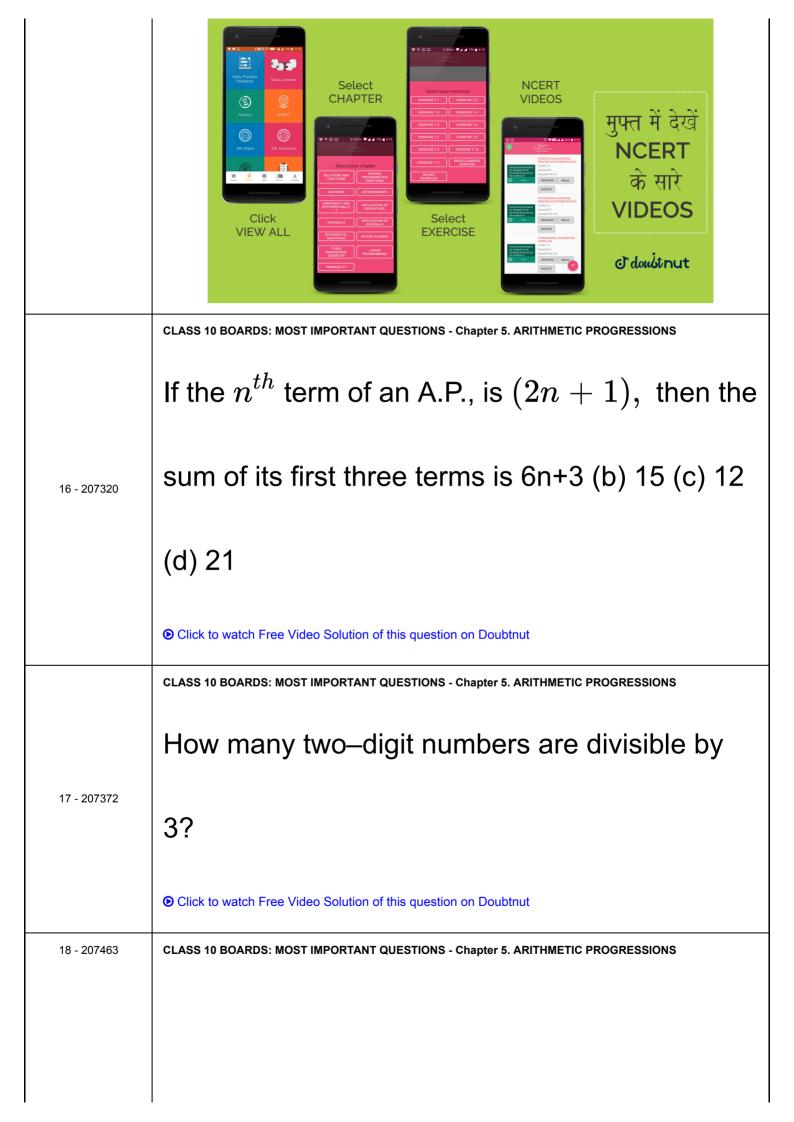
12 - 205816

13 - 205858

 $a_{20} - a_{15}$  is

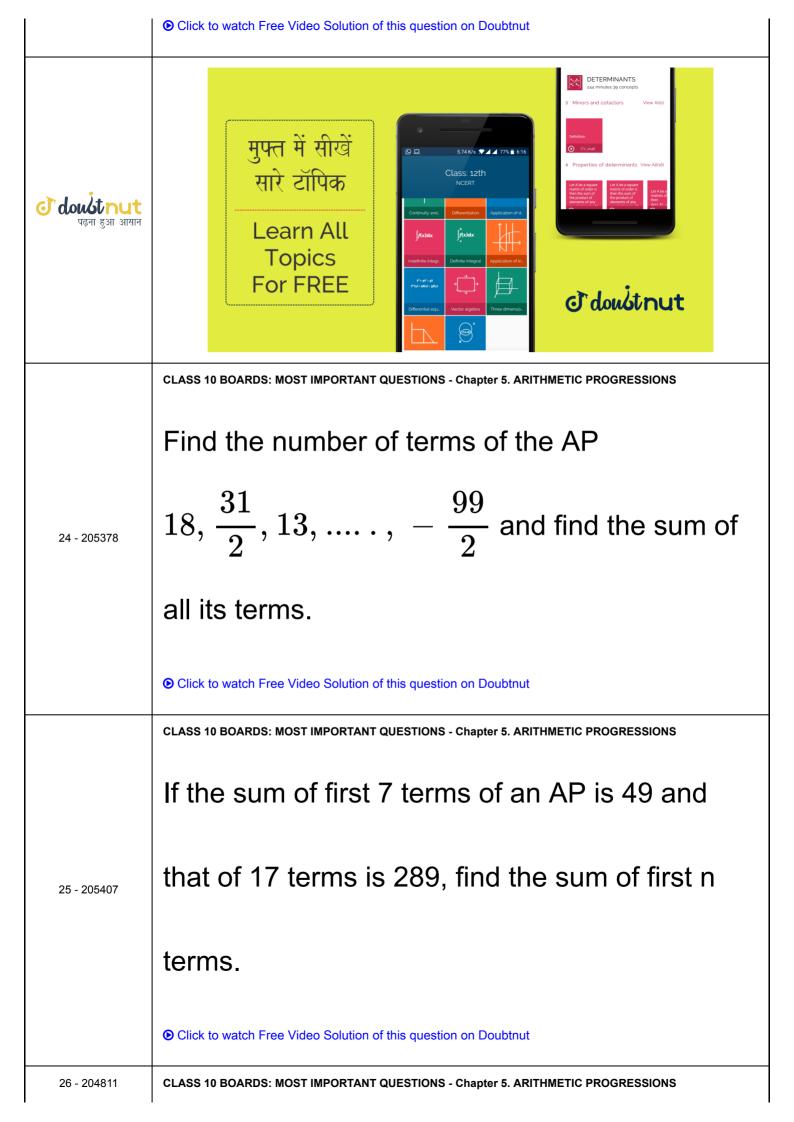
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	Find how many two-digit numbers are divisible
	by 6.
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	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
14 - 205888	Find an A.P. whose fourth term is 9 and the
	sum of its sixth term and thirteenth term is 40.
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15 - 205913	The first and the last terms of an AP are 17 and
	350 respectively. If the common difference is 9,
	how many terms are there and what is then
	sum?
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Find the common difference of an A.P. whose first term is 5 and the sum of its first four terms is half the sum of the next four terms. OClick to watch Free Video Solution of this question on Doubtnut CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS How many two-digit numbers are divisible by 19 - 205724 3? Olick to watch Free Video Solution of this question on Doubtnut الرد روا FREE VIDEOS OF PREVIOUS YEAR **EXAM PAPERS** JEE ADVANCED | JEE MAINS 12 BOARD | 10 BOARDS Made by o doubtnut सिर्फ आपके लिए 20 - 205745 CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS

	Find the sum of all multiples of 7 lying between
	500 and 900.
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21 - 205775	Find the common difference of an A.P. whose
	first term is 5 and the sum of its first four terms
	is half the sum of the next four terms.
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22 - 205256	The common difference of the AP
	$\left rac{1}{p},rac{1-p}{p},rac{1-2p}{p} ight.$ is
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23 - 205361	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
	Find the sum of all three digit natural numbers,
	which are divisible by 7.



The 14th term of an A.P. is twice its 8th term. If its 6th term is -8, then find the sum of its first 20 terms.

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Find the 60th term of the AP 8, 10, 12, ....., if

27 - 204834

it has a total of 60 terms and hence find the sum of its last 10 terms.

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28 - 203650

	For what value of $k$ will
	$k+9,2k-1 \ \ \mathrm{and} \ \ 2k+7$ are the
	consecutive terms of an $A.P.$
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	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
29 - 203672	The fourth term of an A.P is zero. Prove that
	the 25th term is triple its 11th term
	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
30 - 203590	In an A.P. first term is 5, last term is 45 and sum
	= 400 . Find the no. of terms and common
	difference of A.P.
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31 - 215932	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS

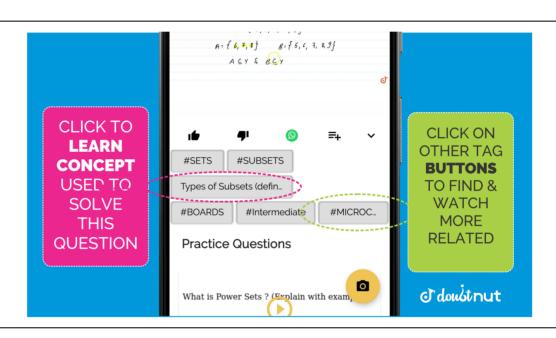
In an A.P. first term is 5, last term is 45 and sum

= 400 . Find the no. of terms and common

difference of A.P.

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If the ratio of the sum of first n terms of two

32 - 203686

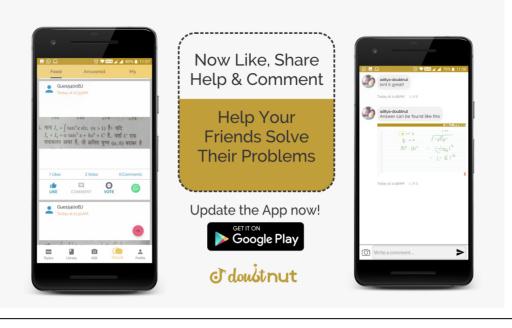
AP's is (7n+1): (4n+27), then find the

ratio of their mth terms.

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33 - 203498

	What is the common difference of an A P. in
	which $a_{21}-a_7=84$
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	Which term of the sequence
34 - 203566	$20,19rac{1}{4},18rac{1}{2},17rac{3}{4},$ is the first negative
	term?
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	CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS
	If the ratio of the sum of first n terms of two
35 - 203615	AP's is $(7n+1)$ : $(4n+27)$ , then find the
	ratio of their $mth$ terms.
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In an A.P., if the common difference (d)=-4 and

the seventh term  $(a_7)$  is 4 then find the first

term

36 - 1202086

37 - 1202102

38 - 1202134

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CLASS 10 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. ARITHMETIC PROGRESSIONS

Find the sum of first 8 multiples of 3

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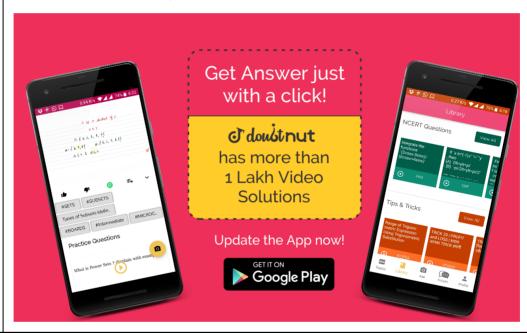
The sum of four consecutive numbers in A.P. is

32 and the ratio of the product of the first and

## last term to the product of two middle terms is

## 7:15. Find the number

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