# ©゙doubtnut 

India's Number 1 Education App

## MATHS

## BOOKS - UNIQUE MATHS (HINGLISH)

## ARITHMETIC PROGRESSION

## Practice Set 31

1. Which of the following squences are A.P.? If they are A.P. find the common difference.

2,4,6,8,...

## - Watch Video Solution

2. Which of the following sequences is an A.P.? If they are A.P., find the common difference. $2, \frac{5}{2}, 3, \frac{7}{2} \ldots$
3. Which of the following seqences are $A$. P.? If they are $A$. $P$. find the common difference.
$-10,-6,-2,2, \ldots \ldots \ldots$

## Watch Video Solution

4. Which of the following seqences are $A . P$.? If they are $A . P$. find the common difference.
$0.3,0.33,0.333$,........

## - Watch Video Solution

5. Which of the following seqences are $A$. P.? If they are $A . P$. find the common difference.
$0,-4,-8,-12 . . . . . . . .$.
6. Which of the following squences are A.P.? If they are A.P. find the common difference.

2,4,6,8,...

## Watch Video Solution

7. Which of the following squences are A.P.? If they are A.P. find the common difference $3,3+\sqrt{2}, 3+2 \sqrt{2}, 3+3 \sqrt{3}, \ldots$

## - Watch Video Solution

8. Which of the following squences are A.P.? If they are A.P. find the common difference

127, 132, 137, ...
9. write an A.P. whose first term is a and common difference $d$ in each of the following.

$$
a=10, d=5
$$

## D Watch Video Solution

10. Write an $A$. $P$ whose first term is $a$ and common difference is $d$ in each of the following :
$a=-3, d=0$

## - Watch Video Solution

11. Write an $A . P$ whose first term is $a$ and common difference is $d$ in each of the following :
$a=-7, d=\frac{1}{2}$
12. Write an $A$. $P$ whose first term is $a$ and common difference is $d$ of the following :
$a=-1.25, d=3$

## - Watch Video Solution

13. write an A.P. whose first term is a and common difference $d$ in each of the following.
$a=6, d=-3$

## - Watch Video Solution

14. Write an $A$. $P$ whose first term is $a$ and common difference is $d$ in each of the following :
$a=-19, d=-4$

- Watch Video Solution

15. Find the first term and common difference for each of the A.P. 5,1,-3,-7

## - Watch Video Solution

16. Find the first term and common difference for each of the A.P. 0.6,0.9,1.2,1.5,.....

## - Watch Video Solution

17. Find the first term and common difference for each of the A.P.

127,135,143,151,....

## - Watch Video Solution

18. Find the first term and common difference for each of the A.P.
$\frac{1}{4}, \frac{3}{4}, \frac{5}{4}, \frac{7}{4}, \ldots \ldots$

## Practice Set 32

1. Write the corect number in the given boxes from the following $A . P$.
$1,8,15,22, \ldots \ldots$. Here,
$t 1=\square, t 2=\square, t 3=\square, t 4=\square, t 2-t 1=\square, t 3-t 2=\square \therefore a=\square$

## - Watch Video Solution

2. Write the correct number in the given boxes from the following A.P.

3,6,9,12,......
Here
$t_{1}=\square, t_{2}=\square, t_{3}=\square, t_{4}=\square, t_{2}-t_{1}=\square, t_{3}-t_{2}=\square \therefore d=\square$

## - Watch Video Solution

3. Write the correct number in the given boxes from the following A.P.
$-3,-8,-13,-18, \ldots .$.
Here,
$t_{1}=\square, t_{2}=\square, t_{3}=\square, t_{4}=\square, t_{2}-t_{1}=\square, t_{3}-t_{2}=\square \therefore a=$

## - Watch Video Solution

4. Write the correct number in the given boxes from the following A.P.
$70,60,50,40, \ldots . . . .$.
Here, $t_{1}=\square, t_{2}=\square, t_{3}=\square, \ldots \ldots . \quad \therefore a=\square, d=\square$

## - Watch Video Solution

5. Decide whether following sequence is an A.P., if so find $20^{\text {th }}$ term of the progression.
$-12,-5,2,9,16,23,30, .$.
6. Given Arithmetic Progression $12,16,20,24, \ldots$ Find the $24^{\text {th }}$ term of this progression.

## Watch Video Solution

7. Find the $19^{\text {th }}$ term of the following A.P.
$7,13,19,25, \ldots$.

## - Watch Video Solution

8. Find the $27^{\text {th }}$ term of the following A. P. $9,4,-1,-6,-11, \ldots$

## - Watch Video Solution

9. Find how many three digit natural numbers are divisible by 5 .

## - Watch Video Solution

10. The $11^{\text {th }}$ term and the $21^{\text {th }}$ term of an A.P. are 16 and 29 respectively, then find the $41^{\text {th }}$ term of that A.P.

## - Watch Video Solution

11. $11,8,5,2, \ldots$ In this A.P. which term is number -151 ?

## - Watch Video Solution

12. In the natural numbers from 10 to 250 , how many are divisible by 4 ?

## - Watch Video Solution

13. In an A.P. $17^{\text {th }}$ term is 7 more than $10^{\text {th }}$ term. Find the common difference?

## - Watch Video Solution

1. First term and common difference of an A.P. are 6 and 3 respectively : Find $S_{27}$

## D Watch Video Solution

2. Find the sum of first 123 even natural number.

## - Watch Video Solution

3. Find the sum of all even number between 1 to 350 .

## - Watch Video Solution

4. In an A.P. $19^{\text {th }}$ term is 52 and $38^{\text {th }}$ term is 128 , Find sum of first 56 terms.
5. Complete the following activity to find the sum of natural numbers between 1 to 140 which are divisible by 4 .

## - Watch Video Solution

6. Sum of first 55 terms in an A.P.is 3300 , find its $28^{\text {th }}$ term.

## - Watch Video Solution

7. In an A.P. sum of three consecutive terms is 27 and their product is 504, find the terms. (Assume that three consecutive terms in A.P. are a - d , a, $a+d$ )

## - Watch Video Solution

8. Find four consecutive terms in an A.P. whose sum is 12 and the sum of $3^{\text {rd }}$ and $4^{\text {th }}$ term is 14.
(Let four consecutive terms be a -d ,a,a+d, a+2d)

## ( Watch Video Solution

9. If the $9^{t h}$ term of an A.P. is zero, then prove that $29^{t h}$ term is double of $19^{\text {th }}$ term.

## - Watch Video Solution

## Practice Set 34

1. On 1 st Jan 2016 , Sanika decides to save $R s 10, R s 11$ on second day, $R s 12$ on third day. If she decide to save like this, then on $31^{s t}$ Dec 2016

What would be her total saving?
2. A man Borrows Rs. 8000 and agrees to repay with a total interest of Rs.

1360 in 12 monthly instalments. Each instalment being less than the preceding one by Rs. 40 . Find the amount of the first and last instalments.

## - Watch Video Solution

3. Sachin invested Rs. 5000 for the 1st year, Rs. 7000 for the 2nd year, Rs. 9000 in the 3rd year in National Savings Certificate scheme. How much amount did he invest in 12 yearsgt

## - Watch Video Solution

4. There is an auditorium with 27 rows of seats. There are seats in the first row, 22 seats in the second row, 24 seats in the third row and so on. Find the number of seats in $15^{\text {th }}$ row and also find how many total seats are there in the auditorium?
5. Kargil's temperature was recorded in a week from Monday to Saturday. All readings were in A.P. The sum of temperatures of Monday and Saturday was $5 \circ \mathrm{C}$ more than sum of temeratures of Tuesday and Saturday. If temperature of Wednesday was $-30 \circ \mathrm{C}$ Then find the temperature on the other five days.

## - Watch Video Solution

## Problem Set 3

1. Choose the correct alternative answer for each of the following subquestions:
(1) The sequence $-10,-6,-2,2, \ldots \ldots$.
A. is an $A . P$. , Reason $d=-16$
B. is an $A . P$. , Reason $d=4$
C. is an $A . P .$, Reason $d=-4$
D. is not an $A . P$.

## Answer:

## - Watch Video Solution

2. The first four terms of an Ap whose first term is -2 and the common difference is -2 are
A. $-2,-0,2,4$
B. $-2,4,-8,16$
C. $-2,-4,-6,-8$
D. $-2,-4,-8,-16$

## Answer:

3. What is the sum of the first 30 natural numbers?
A. 464
B. 465
C. 462
D. 461

## Answer:

4. For an A.P. if $t_{7}=4 . d=-4$.then $a=\ldots$. .
A. 6
B. 7
C. 20
D. 28

## Answer:

## - Watch Video Solution

5. For an A.P. if $a=3.5, d=0, n=101$, then $t_{n}=\ldots$
A. 0
B. 3.5
C. 103.5
D. 104.5

## Answer:

6. In an $A$. $P$. first two terms are $-3,4$ then $21^{s t}$ term is

$$
\text { A. }-143
$$

B. 143
C. 137
D. 17

## Answer:

## - Watch Video Solution

7. If for an A.P., $d=5$, then $t_{18}-t_{13}=\ldots$.
A. 5
B. 20
C. 25
D. 30

## Answer:

8. Sum of first five multiples of 3 is
A. 45
B. 55
C. 15
D. 75

## Answer:

## - Watch Video Solution

9. $15,10,5$.....In this $A . P$. sum of first 10 terms is....
A. -75
B. -125
C. 75
D. 125

## Watch Video Solution

10. In an A.P., $1^{\text {st }}$ terms is 1 and the last term is 20 . The sum of all terms is 399 then $\mathrm{n}=$ $\qquad$
A. 42
B. 38
C. 21
D. 19

## Answer:

## D Watch Video Solution

11. The 4 th term from the end of an AP $-11,-8,-5, \ldots, 49$ is
12. In an A.P. $10^{\text {th }}$ term is 46 , sum of $5^{\text {th }}$ and $7^{\text {th }}$ term is 52 . find the A.P.

## - Watch Video Solution

13. The A.P. in which $4^{\text {th }}$ term -15 and $9^{\text {th }}$ term is -30 . Find the sum of first 10 numbers.

## - Watch Video Solution

14. Two A.P's are given $9,7,5$..and $24,21,18$,....If $n^{\text {th }}$ term of both the progressions are equal then find the value of n and $n^{\text {th }}$ term

## - Watch Video Solution

15. If sum of $3^{\text {rd }}$ and $8^{\text {th }}$ terms of an A.P. is 7 and sum of $7^{\text {th }}$ and $14^{\text {th }}$ terms is -3 then find $10^{\text {th }}$ term.
16. In an A.P., first term is -5 and last term is 45 . If sum of all the numbers in the A.P. is 120 , then how many terms are there? What is the common difference.

## - Watch Video Solution

17. Sum of 1 to $n$ natural numbers is 36 , then find the value of $n$.

## - Watch Video Solution

18. Split 207 into three parts such that these are in A.P. and the product of the two smaller parts is 4623 .

## - Watch Video Solution

19. An AP consists of 37 terms. The sum of the three middle most terms is 225 and the sumj of the last three terms is 429 . Find the AP.

## - Watch Video Solution

20. Show that the sum of an A.P. whose first term is $a$, the second term is $b$ and the last term is $c$, is equal to \cline { }$((a+c)(b+c-2 a)) /(2(b-a))$

## - Watch Video Solution

21. The sum of first $P$ terms of an A.P. is equal to the sum of its first $Q$ terms. Show that the sum of its first $(\mathrm{P}+\mathrm{Q})$ terms is zero.

## - Watch Video Solution

22. If $m$ times the $m^{\text {th }}$ term of an A.P. is equal to $n$ times its $n^{\text {th }}$ term, show that the $(m+n)^{t h}$ term of the A.P. is zero.
23. Rs. 1000 is deposited at 10 per cent simple interest. Check if the interest amount at the end of every year is in A.P. If this is A.P. then find amount of the interest after 20 years. For this complete the following activity.

## - Watch Video Solution

## Hots Solved

1. Swati was given her pocket money on jan $1^{s t} 2008$. She puts $R s 1$ on day
$1 R s 2$ on day $2, R s 3$ on day 3 and continued doing so till the end of the month. From this money into her piggy bank she also spent $R s 204$ of her pocket money and found that at the end of the month she still had $R s 100$ with her. How much was her pocket money for the month?
2. A man arranges to pay a debt of Rs 3600 in 40 monthly installments which are in AP When 30 installments are paid he dies leaving one third of the debt unpaid Find the value of the first installment

## - Watch Video Solution

3. If $p^{\text {th }}, q^{\text {th }}, r^{\text {th }}$ term of an $A . P$ is $x, y$ and $z$ respectively. Show that $x(q-r)+y(r-p)+z(p-q)=0$

## - Watch Video Solution

4. Find the sum of all 3 digit numbers which leave remainder 3 when divided by 5 .

## - Watch Video Solution

5. Find the sum of all natural numbers amongest first one thousand numbers which are neither divisbile by 2 or by 5 .

## - Watch Video Solution

## Unique Practice Session

1. The sequence $2,4,8,16, \ldots$.
A. is an $A . P$. , Reason $d=4$
B. is an $A$. $P$., Reason $d=-4$
C. is not an $A . P$.
D. is an $A$. $P$. with variable $d$

## Answer:

## - Watch Video Solution

2. In an $A . P . I$ term is 0 and the last term is 40 . Then sum of all terms is $=\ldots \ldots \ldots .$. when $n=20$.
A. 800
B. 60
C. 20
D. 400

## Answer:

## - Watch Video Solution

3. Arjun thought of adding all the multiples of 5 he learnt in class. So would you help him to get the answer to first 10 multiples of 5 . According to you $S_{10}=\ldots$..
A. 275
B. 500
C. 50
D. 550

## Answer:

## - Watch Video Solution

4. If $\frac{1}{2} \pi, 1 \pi, \frac{3}{2} \pi, \ldots \ldots .$. is an $A . P$. $d=\ldots . .$. .
A. $\frac{1}{2} \pi$
B. $2 \pi$
C. $\frac{\pi}{2}$
D. $\pi$

## Answer:

5. Find first four terms of an $A . P$., whose first term is -6 and common difference is +6 .
A. $-6,+6,-12,+24$
B. $-6,-12,-18,-24$
C. $-6,+6,+12,+18$
D. $-6,0,6,12$

## Answer:

## - Watch Video Solution

6. In an auditorium, if there are 20 seats in $1^{\text {st }}$ row, 25 in $2^{\text {nd }}$ row then there are $\qquad$ Seats in $10^{\wedge}(\text { th })^{\prime}$ row.
A. 65
B. 45
C. 55

## Answer:

## - Watch Video Solution

7. What is the sum of the first 10 even numbers starting with 0 .
A. 100
B. 90
C. 20
D. 80

## Answer:

## - Watch Video Solution

8. What is the sum of first 10 natural numbers.
A. 195
B. 100
C. 30
D. 85

## Answer:

## - Watch Video Solution

9. Mother asked Jheel to eat one fruit on the first day, two on the second day, and so on Jheel was very happy. But started crying because on the tenth day she had to eat. fruits.
A. 9
B. 10
C. 55
D. 12

## - Watch Video Solution

10. Smith asked daddy to give $R s 100$ on first day and go on decreasing by $R s 10$ daily. How much money has he collected in 10 days?
A. 550
B. 1000
C. 480
D. 320

## Answer:

## - Watch Video Solution

11. $-10,+10,-10,+10$, $\qquad$ Is the sequence an $A . P$. ? If so, find the common difference.
12. $-4,-3,-2, \ldots . . . . . . . . . I s$ the sequence an $A . P$. ? If so find the common difference.

## - Watch Video Solution

13. Find $a$ and $d$ of an A. P. $5,12,19,26$.

## - Watch Video Solution

14. Find $a$ and $d$ of an $A . P .2,-2,-6,-10^{\prime}, \ldots . . . .$.

## - Watch Video Solution

15. $108,108,108, \ldots \ldots \ldots$... is an $A$. $P$. find $a \& d$.
16. Find the $n^{\text {th }}$ term of an $A . P$. given $a=5 \& d=-2$.

## - Watch Video Solution

17. Find the $n^{\text {th }}$ term of an $A . P$. given $a=-3$ and $\mathrm{d}=4^{\text { }}$.

## - Watch Video Solution

18. Find the $n^{\text {th }}$ term of an $A . P$. Whose first term is 200 and common difference is 7 .

## - Watch Video Solution

19. If first term is -1 and common difference is $\frac{-1}{2}$ find the $n^{\text {th }}$ term.

## - Watch Video Solution

20. If $a=3 \sqrt{3}$ and $d=4 \sqrt{3}$ for an $A$. $P$. find $t_{n}$.

## - Watch Video Solution

21. Find the next term of an $A$. $P .-3,1,5,9, \ldots$.

## - Watch Video Solution

22. Given $t_{n}=4 n-12$ find $t_{10}$

## - Watch Video Solution

23. Write the correct number in the given boxes from the following $A . P$.
$2,11,20,29, \ldots$. Here $a=\square, t 1=\square, t 2=\square, t 3=\square$

## - Watch Video Solution

24. Find the next two terms of an $A . P .-7,-4,-1,2, \ldots . . . . . .$.

## - Watch Video Solution

25. Find the next two terms of an A. P. $\frac{6}{7}, 1, \frac{8}{7}$.

## - Watch Video Solution

26. Which term of the A.P. $2,11,20,29, \ldots$ is 560 ?

## - Watch Video Solution

27. Check whether 41 is in the sequence. $2,5,8, \ldots . . .$.

## - Watch Video Solution

28. How many two digit numbers are divisible by 4?
29. Find $t_{n}$ for following A.P., and then find 30th term of A.P. $3,8,13,18, \ldots . . .$.

## - Watch Video Solution

30. Find $t_{n}$ for the following $A . P$. and then find $45^{t h}$ term of the $A . P$.
$6, \frac{11}{2}, 5, \ldots$.

## - Watch Video Solution

31. Find the first four terms of an $A . P$. whose first term is -3 and common difference -4 , and also find $t_{n}$.

## - Watch Video Solution

32. Find the sum of first $n$ natural numbers Hence find $S_{150}$.

## - Watch Video Solution

33. Find the sum of all odd numbers from 1 to 150 .

## - Watch Video Solution

34. Which of the following sequences are $A . P$. ? If it is an $A . P$., find next two terms.
$5,12,19,26, \ldots \ldots$

## - Watch Video Solution

35. Which of the following sequences are $A . P$. ? If it is an $A . P$., find next two terms.
$2,-2,-6,-10, \ldots \ldots \ldots$.
36. Which of the following sequences are $A . P$. ? If it is an $A . P$., find next two terms.
$1,1,2,2,3,3, \ldots \ldots \ldots$

## - Watch Video Solution

37. Which of the following sequences are $A . P$. ? If it is an $A . P$., find next two terms.
$\frac{3}{2}, \frac{1}{2},-\frac{1}{2}, \ldots \ldots \ldots$.

## - Watch Video Solution

38. The first term a and common difference $d$ are given. Find first four terms of A.P.
(i) $a=-3, d=4$,
(ii) $a=200, d=7$
(iii) $a=-1, d=-\frac{1}{2}$,
(iv) $a=8, d=-5$

## - Watch Video Solution

39. The first term $a$ and common difference $d$ are given. Find first four terms of $A . P$.
$a=200, d=7$

## Watch Video Solution

40. The first term $a$ and common difference $d$ are given. Find first four terms of $A . P$.
$a=-1, d=-\frac{1}{2}$

## - Watch Video Solution

41. The first term $a$ and common difference $d$ are given. Find first four terms of $A . P$.
$a=8, d=-5$

## - Watch Video Solution

42. Find the sum of first n natural numbers.

## - Watch Video Solution

43. Find the sum of first n even natural numbers.

## - Watch Video Solution

44. Find the sum of first $n$ odd natural numbers.

## - Watch Video Solution

45. In an $A$. $P$. sum of three consecutive terms is 36 and their product is -5184 , find the terms.

## - Watch Video Solution

46. First term and common difference of an $A P$ are 10 and -4 respectively find $S_{n}$ and hence find $S_{25}$.

## - Watch Video Solution

47. In an AP $18^{\text {th }}$ term is 180 and $36^{\text {th }}$ term is 360 find the sum of first 53 terms.

## - Watch Video Solution

48. Find four consecutive terms in an $A$. $P$. whose sum is -8 and sum of third and fourth term is 8 .
49. In a certain A.P. the $24 t h$ term is twice the $10 t h$ term. Prove that the $72 n d$ term is twice the $34 t h$ term.

## - Watch Video Solution

50. In the year 2015, Mrs. Shaikh got a job with salary Rs. 1,80, 000 per year. Her employer agreed to give Rs 10,000 per year as increment. Then in how many years will her annual salary be Rs $2,50,000$ ?

## - Watch Video Solution

51. Determine the AP whose third term is 15 and differnce of 5 th from $8^{t h}$ is 21 .

## - Watch Video Solution

52. An A.P. consists of 40 terms. If the first and the last terms are -4 and 269 respectively find the $23^{\text {rd }}$ term.

## Watch Video Solution

53. Find $\mathrm{a}, \mathrm{b}$ and c such that the following numbers are in AP, $\mathrm{a}, 7, \mathrm{~b}, 23$ and c .

## - Watch Video Solution

54. The first term (a) and common difference ( $d$ ) are given $(i)$ Find first four terms of A.P. (ii) Find $60^{t h}$ term and (iii) Find sum of all 100 terms.

For $a=-1, d=\frac{-1}{2}$

## - Watch Video Solution

55. A village has 4000 literate people in the year 2010 and this number increases by 400 per year. How many literate people will be there till year 2020?

## - Watch Video Solution

56. Find $t_{n}$ for following A.P., and then find 30th term of A.P. $3,8,13,18$,......

## - Watch Video Solution

57. Which term of the following A.P. is 560 ? 2,11,20,29.......

## - Watch Video Solution

58. Find the sum of last ten terms of the AP $8,10,12, \ldots, 126$.
59. Find the sum,
(i) $4-\frac{1}{n}+4-\frac{2}{n}+4-\frac{3}{n} \ldots \ldots . . . . . . .$. upto
$(i i) 1+(-2)+(-5)+\ldots+(-236)$.

## - Watch Video Solution

60. Ajay sharma repays the borrowed amount of Rs $3,25,000$ by paying Rs 30500 in the first month and then decreases the payment by Rs 1500 every month. How long will it take to clear his amount?

## - Watch Video Solution

61. The 19th term of an AP is equal to 3 times its 6th term. If its 9th term is 19 , find the AP.

## - Watch Video Solution

62. Find the sum of first 45 terms of an A.P. whose $8^{\text {th }}$ term is 41 and $13^{\text {th }}$ term is 61 .

## - Watch Video Solution

63. A man has saved $R s 640$ during the $1^{s t}$ month, $R s 720$ in the $2^{n d}$ month $R s 800$ in $3 r d$ month. If he continues like this sequence 1 what will be his saving in the $25^{\text {th }}$ month?

## - Watch Video Solution

64. How many two digit number are divisible by 13 ? Also find their sum.

## - Watch Video Solution

65. For an A.P. show that $t_{m+n}+t(m-n)=2 t_{m}$
66. Check wether 301 is a term of the list of numbers $5,11,17,23, \ldots .$. .

## - Watch Video Solution

67. The 10th term and the 18th term of an A.P. are 25 and 41 respectively, then find 38 th term of that A.P. Similarly if $n$th term is 99 , find the value of n.

## - Watch Video Solution

68. How many two digit numbers are divisible by 4?

## - Watch Video Solution

69. A mixer manufacturing company manufactured 600 mixers in $3^{r d}$ year and in $7^{\text {th }}$ year they manufactured 700 mixer. If every year there is same growth in the production of mixers then find $(i)$ production in the first
year (ii) production in $10^{t h}$ year ( $i i i$ ) total production in first seven years.

## - Watch Video Solution

70. Anvar saves some amount every month. In first three months he saves Rs 200, Rs 250 and Rs 300 respectively. In which month will he save Rs. 1000 ? Find the totla amount saved.

## - Watch Video Solution

## Assignment lii

1. $-4,-3,-2$,.............Is the sequence an $A$. $P$. ? If so find the common difference.
2. For an A.P. if $a=3.5, d=0, n=101$, then $t_{n}=\ldots$
A. 0
B. 3.5
C. 103.5
D. 104.5

## Answer:

## - Watch Video Solution

3. Find the $19^{\text {th }}$ term of the following A.P.
$7,13,19,25, \ldots$.

## - Watch Video Solution

4. Complete the following activity to find the sum of natural numbers between 1 to 140 which are divisible by 4 .
5. Decide whether following sequence is an A.P., if so find $20^{\text {th }}$ term of the progression. $-12,-5,2,9,16,23,30, .$.

## - Watch Video Solution

6. On 1st Jan 2018, Sanikadecides to save Rupees 10 ,Rupees 11 on the second day, Rupees 12 on the third day. She decides to save like this . What would be her total savings at the end of the year ?

## - Watch Video Solution

7. Find how many three digit natural numbers are divisible by 5 .

## - Watch Video Solution

8. A man arranges to pay a debt of Rs 3600 in 40 monthly installments which are in AP When 30 installments are paid he dies leaving one third of the debt unpaid Find the value of the first installment

## - Watch Video Solution

9. The sum of first $P$ terms of an A.P. is equal to the sum of its first $Q$ terms. Show that the sum of its first $(\mathrm{P}+\mathrm{Q})$ terms is zero.

## - Watch Video Solution

