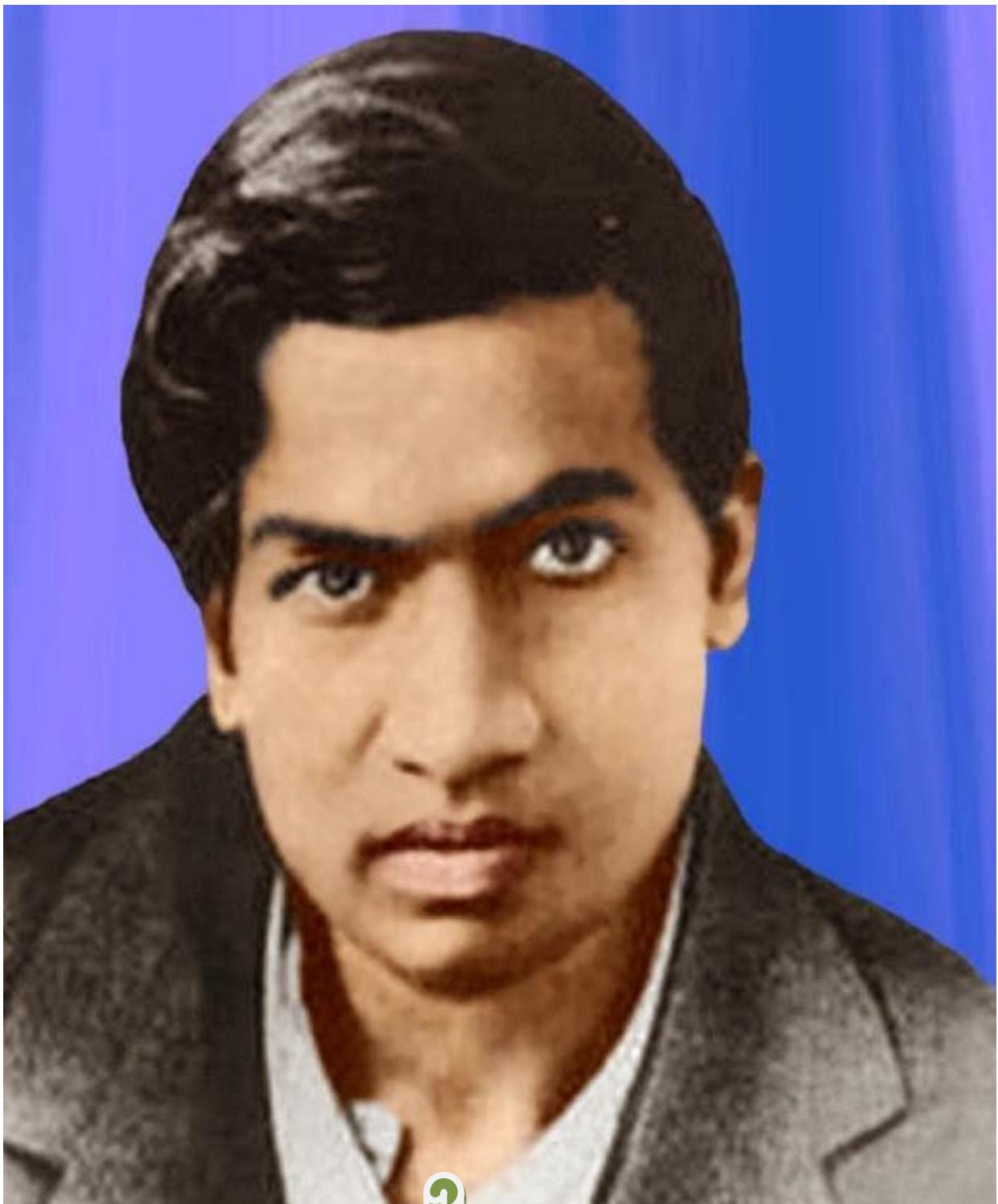


SHRINIWASA RAMANUJAN
MATHEMATICS
ACTIVITY BOOK - 03



MATH-SCIENCE DEARS

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STUDENT NAME :-

CLASS :-

SECTION :-

ROLL NO.

HEAD MASTER

INDEX

CHAPTER	NAME OF THE ACTIVITY	ALLOTED MARKS	OBTAINED MARKS
ARITHMETIC PROGRESSION	<p>Que. No. 1 :- CALCULATE</p> <p>Que. No. 2 :- CALCULATE</p> <p>Que. No. 3. PUT VALUE, FIND VALUE (IN FORMULA)</p> <p>Que. No. 4. PUT VALUE, FIND VALUE (IN FORMULA)</p>	11 12	06

TYPE OF ACTIVITY : INDIVIDUAL (OBJECTIVES) PARAMETERS

MAXIMUM MARKS	40 MARKS	OBTAINED MARKS	-----
1) EXCELLENT REVISE	(40 Marks)		
2) VERY GOOD NEED PRACTICE	(30 TO 39 Marks)		
3) GOOD MORE NEED PRACTICE	(20 TO 29 Marks)		
4) IMPROVE IT HARD PRACTICE	(BELOW 20 Marks)		

पाया गणिताचा



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ACTIVITY – 03

UNIT : CHAPTER : 3

ARITHMETIC PROGRESSION

Que. No. 1 :- CALCULATE	
Equations	ANSWERS
$3 \times 1 + 1$	
$\frac{1}{9} + 1$	
$3 \times 12 + 1$	
$3 \times 7 + 1$	
$3 \times 15 + 1$	
$3 + 1 \times 4$	
$12 + 2 \times 9$	
$30 + 12 \times 9$	
$\frac{1}{1+1}$	
$\frac{2}{2+1}$	
$2^2 (2 + 1)$	

$3^2(12 + 5)$	
$\frac{3^2(3 + 1)^2}{4}$	
$\frac{2^2(2 + 1)^2}{4}$	
$\frac{3^2(3 + 1)^2}{4}$	
$\frac{2(2 + 1)(2 \times 2 + 1)}{6}$	
$\frac{3(3 + 1)(2 \times 3 + 1)}{6}$	
$180 + (10 - 1) \times 180$	
$3 + (15 - 1) \times 5$	
$68 = 5 + (n - 1) \times 3$	
$(11 - 14) + (3 \times 7) + 1$	
$3 + (15 - 19) \times 5$	

Que. No. 2 :- CALCULATE

Equations	ANSWERS
$3 \times 1 + 1$	
$\frac{60}{2} \times [2 \times 7 + (60 - 1) \times 4]$	
$\frac{10}{2} \times [(2 \times 3) + (10 - 1) \times 6]$	
$\frac{20(20 + 1)}{2}$	
$\frac{75}{2}(1 + 149)$	
$\frac{11}{2} [(2 \times 6) + (11 - 1) \times 6]$	
$\frac{25}{2} [(2 \times 8) + (25 - 1) \times 4]$	

$$\frac{-27}{2} - 3 \times \frac{3}{2}$$

$$\frac{-27}{2} - \frac{3}{2}$$

$$\frac{-27}{2} + 3 \times \frac{3}{2}$$

$$2^3 \times 2^3 \times (-4)^3$$

$$(1+d)(-1+d)$$

$$1500 + (20 - 1) \times 100$$

$$4000 + (10 - 1) \times 400$$

$$495 + (10 - 1) \times (-10)$$

$$\frac{4500}{5} = 2a - 90$$

$$4500 = \frac{10}{2} [2a + (10-1) \times (-10)]$$

$$\frac{30}{2} [(2 \times 20) + (30 - 1) \times 4]$$

$$\frac{12}{2} [(2 \times 500) + (12 - 1) \times 200]$$

$$2 + (-1) + (-4)$$

$$(7 - 14) + (13 \times 7) + 5$$

$$33 + (12 - 19) \times 15$$

Que. No. 3. PUT VALUE, FIND VALUE (IN FORMULA)

Equations	Answers
$t_n = \frac{1}{n^2} + 1$ put value n=2	=
$t_n = \frac{1}{n^2} + 1$ put value n=4	=
$t_n = \frac{1}{n^2} + 1$ put value n=6	=
$t_n = t_{n-1} + (n-1)$ Put Value n=6, $t_5 = 11$	=
$t_n = t_{n-1} + (n-1)$ Put Value n=7, $t_6 = 15$	=
a=180, d=180, n=10 Put values $t_n = a + (n - 1) \times d$	=
a=7, d=4, n=60 put values $S_n = \frac{n}{2} [2a + (n-1)d]$	=
n=2 put value $S_n = \frac{n}{n+1}$	=
n=2 put value $S_n = n^2(n + 1)$	=
n=4 put value $S_n = n^2(n + 1)$	=
n=2 put value $S_n = \frac{n^2(n+1)^2}{4}$	=
n=3 put value $S_n = \frac{n^2(n+1)^2}{4}$	=

Que. No. 4. PUT VALUE, FIND VALUE (IN FORMULA)

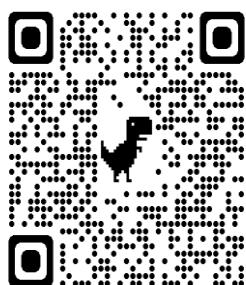
Equations	Answers
$S_n = \frac{n}{2} [2a + (n-1)d]$ Put Value $a=305, d= -15, S_n = 3250$ find n=?	=
$S_n = \frac{n}{2} [2a + (n-1)d]$ Put Value $n=12, d= -10, S_{12} = 1140$ find a=?	=
$S_n = \frac{n}{2} [2a + (n-1)d]$ put value $a=2, d= 2, n=28 S_{28} = ?$	=
$S_n = \frac{n}{2} [2a + (n-1)d]$ put value $S_{10} = 4500, d= -10, n=10,$ find a = ?	=
$S_n = \frac{n}{2} [2a + (n-1)d]$ put value $a=20, d= 4, n=30,$ $S_{30} = ?,$	=

$S_n = \frac{n}{2} [2a + (n-1)d]$ put value a=500 , d= 200, n=12, S₁₂ = ?,	=
$t_n = a + (n - 1) \times d$ Put values a=15000, d=100, n=20 find t_n	=
$t_n = a + (n - 1) \times d$ Put values a=14, d=2, n=10 find t_n	=
$t_n = a + (n - 1) \times d$ Put values a=20, d=2, n=25 find t_n	=

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THANKS.....