

ONLINE MATHS CLASS - X - 07 (01 / 07 /2021)

1. ARITHMETIC SEQUENCE -CLASS 5 -WORK SHEET - ANSWER

1. Consider the sequence of two digit numbers which leave a remainder 1 on division by 5

- Write down the sequence .
- What is the common difference of the sequence ?
- Which is the smallest number in this sequence ?
- Which is the largest number in this sequence ?
- How many terms are there in this sequence ?

Answer

a) 11 , 16 , 21 , . . .

b) Common difference = 5

c) Smallest number = 11

d) Largest number= 96

e) $Position\ difference = \frac{Term\ difference}{Common\ difference} = \frac{96-11}{5} = \frac{85}{5} = 17$

Number of terms = 17 + 1 = 18

2. Consider the sequence of three digit numbers which leave a remainder 3 on division by 10 .

- Write down the sequence .
- What is the common difference of the sequence ?
- Which is the smallest number in this sequence ?
- Which is the largest number in this sequence ?
- How many terms are there in this sequence ?

Answer

a) 103 , 113 , 123 , . . .

b) Common difference = 10

c) Smallest number = 103

d) Largest number = 993

e) $Position\ difference = \frac{Term\ difference}{Common\ difference} = \frac{993-103}{10} = \frac{890}{10} = 89$

Number of terms = 89 + 1 = 90

3. Fill up the empty cells of the given squares such that the numbers in each row and column form arithmetic sequences .

a)

3			9
15			57

b)

4			13
22			85

c)

5			17
29			113

Answer

a)

3	5	7	9
7	13	19	25
11	21	31	41
15	29	43	57

b)

4	7	10	13
10	19	28	37
16	31	46	61
22	43	64	85

c)

5	9	13	17
13	25	37	49
21	41	61	81
29	57	85	113