07-05-2021

Ex - 5.F

1) For each pattern, given bellow, write the next three step.

i) $1 \times 9 + 1 = 10$

$12 \times 9 + 2 = 110$

$123 \times 9 + 3 = 1110$

$1234 \times 9 + 4 = 11110$

$12345 \times 9 + 5 = 111110$

$123456 \times 9 + 5 = 111110$

ii) Ans $9876 \times 9 \times 4 = 88888$

$98765 \times 9 \times 3 = 888888$

$987654 \times 9 \times 2 = 8888888$

iii) Ans ~~$1234 \times 8 + 4 = 987$~~ $1234 \times 8 \times 4 = 9876$

$1234 \times 8 \times 5 = 98765$

$123456 \times 8 \times 5 = 987654$

iv) Ans $444 \div 12 = 37$

$555 \div 15 = 37$

$666 \div 18 = 37$

2) Complete each of the following magic square

i)

6	7	2
1/8	5	9
	3	4

ii)

4	9	8
11	7	3
6	5	10

16	2	12
6	10	14
8	18	4

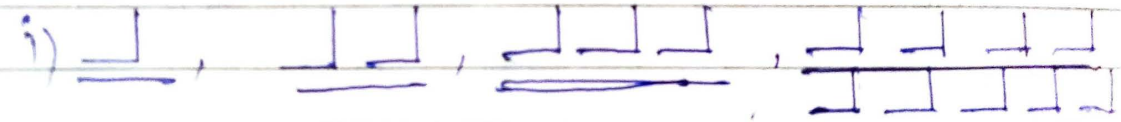
③ i) N = Number of figure
S = Number of matchstick

N	1	2	3	4
S	7	10	13	16

i) $S = 3n + 4$ (S in term of N)

ii) 1) 15th figure : $N = 15$
$S = (3 \times 15) + 4 = 49$ - Ans

2) 40th figure : $N = 40$
$S = (3 \times 40) + 4 = 124$ - An

④ i) 

ii)

N	1	2	3	4	5
L	2	4	6	8	10

N = Number of figure
L = Number of Matche

iii) $L = 2n$ (L in term of N)

iv) i) 12th figure : $N = 12$, $L = 2n = 12 \times 2 = 24$
ii) 20th figure : $N = 20$, $L = 2n = 2 \times 20 = 40$

Hw
07-06-2021

Ex. 5.F

⑤ a)

N =	1	2	3
F =	5	8	11

N = Number of figure
F = Number of matchstick

i) $F = 3n + 2$

ii) 16th figure = $N = 16$

$F = (3 \times 16) + 2 =$ **50 · Ans**

30th figure = $N = 30$

$F = (3 \times 30) + 2 =$ **92 · Ans**

b)

N =	1	2	3
F =	5	9	13

i) $F = 4n + 1$

ii) 16th figure = $N = 16$

$F = (4 \times 16) + 1 = 64 + 1 =$ **65 · A**

30th figure = $N = 30$

$F = (4 \times 30) + 1 = 120 + 1 =$ **121 - Ans**

c)

N =	1	2	3
F =	8	13	18

i) $F = 5n + 3$

ii) 16th figure = $N = 16$, $F = (5 \times 16) + 3 = 80 + 3 =$ **83 · A**

30th figure = N = 30

F = (5 × 30) + 3 = 150 + 3 = 153

d)

N =	1	2	3
F =	6	11	16

F = 5n + 1

16th figure = N = 16

F = (5 × 16) + 1 = 80 + 1 = 81 - Ans

30th figure = N = 30

F = (5 × 30) + 1 = 150 + 1 = 151 Ans

e)

N =	1	2	3
F =	5	9	13

F = 4n + 1

16th figure = N = 16

F = (4 × 16) + 1 = 64 + 1 = 65 - Ans

30th figure = N = 30

F = (4 × 30) + 1 = 120 + 1 = 121 - Ans

f)

N =	1	2	3
F =	2	6	10

F = 4n - 1

16th figure = N = 16

F = (4 × 16) - 1 = 64 - 2 = 62 = A

30th figure = N = 30

F = (4 × 30) - 1 = 120 - 2 = 118 A