

The division is correct.

Ex. 5(7)

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

$$12 \times 9 + 2 = 110$$

$$123 \times 9 + 3 = 1110$$

ii) $9 \times 9 + 7 = 88$

$$98 \times 9 + 6 = 888$$

$$987 \times 9 + 5 = 8888$$

iii) $1 \times 8 + 1 = 9$

$$12 \times 8 + 2 = 98$$

$$123 \times 8 + 3 = 987$$

iv) $111 \div 3 = 37$

$$222 \div 6 = 37$$

$$333 \div 9 = 37$$

2) Complete each of the following magic squares:

Handwritten scribbles and marks at the top left.

1)	6	7	2	R1 → 15	L1 → 15	A1 → 15
	1	5	9	R2 → 15	L2 → 15	A2 → 15
	8	3	4	R3 → 15	L3 → 15	

2)	4	9	8	R1 → 21	L1 → 21	A1 → 21
	11	7	3	R2 → 21	L2 → 21	A2 → 21
	6	5	10	R3 → 21	L3 → 21	

3)	16	2	12	R1 → 30	L1 → 30	A1 → 30
	6	10	14	R2 → 30	L2 → 30	A2 → 30
	8	18	4	R3 → 30	L3 → 30	

3) See the following pattern carefully:

i) $s = 3 \times N + 4$

ii) 1) 15th figure = $N = 15$

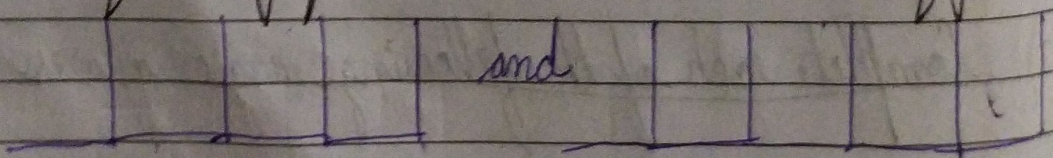
$s = 3 \times 15 + 4 = 49.$

2) 40th figure has = $3 \times 40 + 4$

= 124 matches.

iii) It is clear that each time the figure (n) is increased by 4, the number of matches (s) as increased by 3.

4) i) In the following pattern, draw the next two figures.



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1	2	3	4	5
2	4	6	8	10

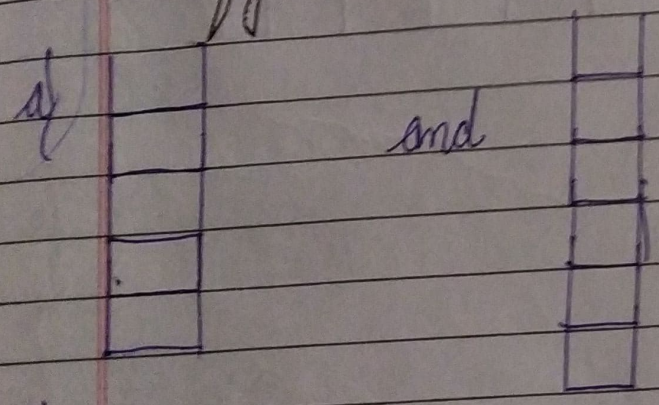
i) The table is given below

ii) Hence, the value of L is $L = 2n$.

iii) 1) Number of matchsticks in 12th figure = $2 \times 12 = 24$

2) Number of matchsticks in 20th figure = $2 \times 20 = 40$.

5) In each case of the following patterns, construct the next figures.



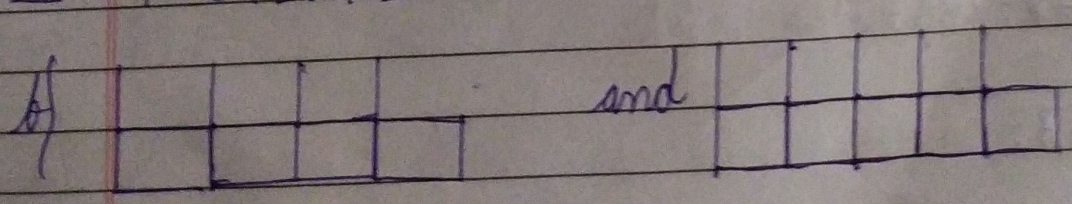
i) $T = 3 \times N + 2$

ii) 16th figure = $N = 16$

30th figure = $N = 30$

= $T = 3 \times 16 + 2 = 50$

$T = 3 \times 30 + 2 = 92$

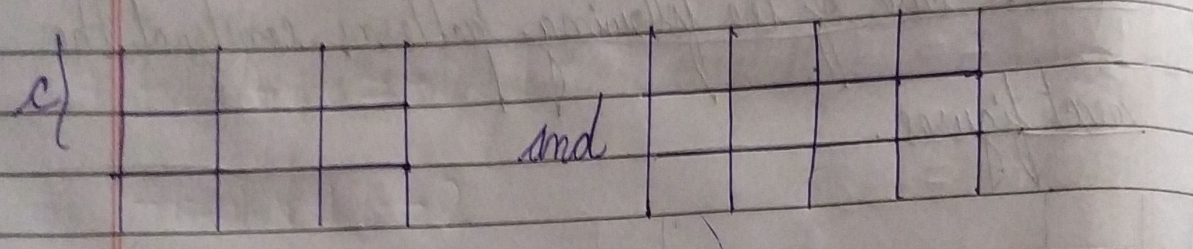


i) $T = 4 \times n + 4$

Monday

i) 16th figure = $N=16$
 $= F = 4 \times 16 + 1$
 $= 65.$

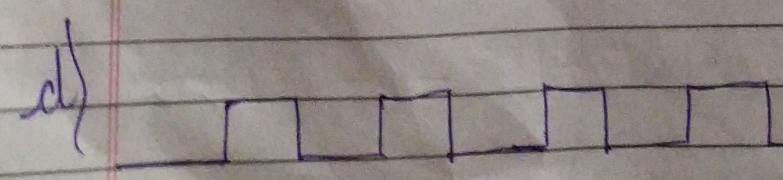
ii) 30th figure = $N=30$
 $= F = 4 \times 30 + 1$
 $= 121.$



i) $F = 5 \times n + 3$

ii) 16th figure = $N=16$
 $= F = 5 \times 16 + 3$
 $= 83.$

ii) 30th figure = $N=30$
 $= F = 5 \times 30 + 3$
 $= 153.$



Ans.
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$$i) \quad \varphi = 4 \times n + 1$$

$$ii) \quad 16^{\text{th}} \text{ figure} = N = 16$$

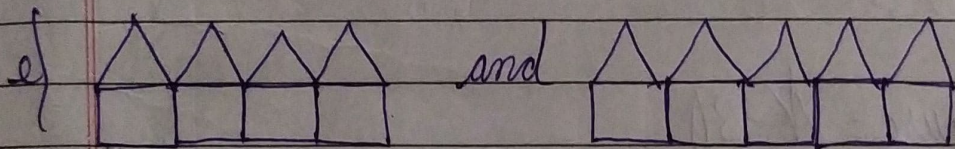
$$= \varphi = 4 \times 16 + 1$$

$$= 65.$$

$$ii) \quad 30^{\text{th}} \text{ figure} = N = 30$$

$$= \varphi = 4 \times 30 + 1$$

$$= 121.$$



$$i) \quad \varphi = 5 \times n + 1$$

$$ii) \quad 16^{\text{th}} \text{ figure} = 5 \times 16 + 1 = N = 81$$

$$= \varphi = 5 \times 16 + 1$$

$$= 81.$$

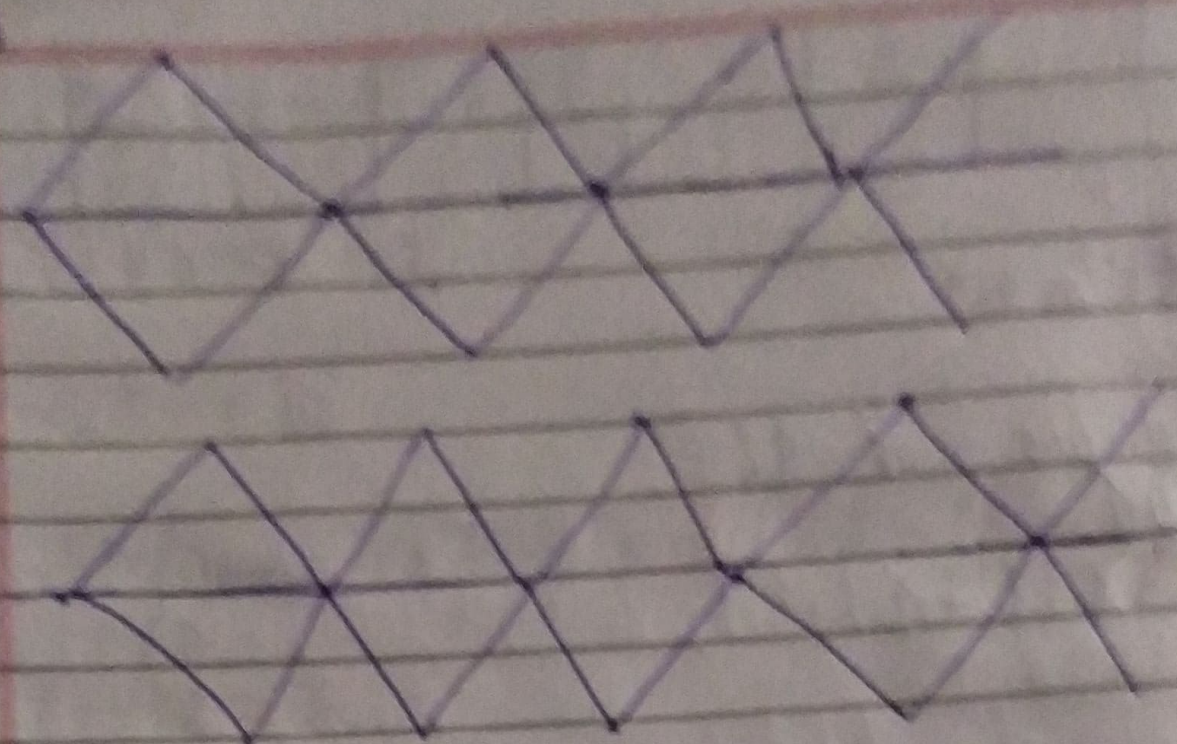
$$ii) \quad 30^{\text{th}} \text{ figure} = N = 30$$

$$= \varphi = 5 \times 30 + 1 = 151$$

200
subm...



H



i) $F = 4 \times n - 2$

ii) 16th figure = $N = 16$

= $F = 4 \times 16 - 2$

= 62

ii) 30th figure = $N = 30$

= $F = 4 \times 30 - 2$

= 118