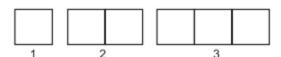
Matchstick Patterns

1. Look at the pattern of shapes made with matchsticks:

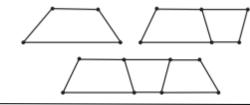


How many matchsticks will be required to make:

- a. 7 Parallelograms ______ b. 12 Parallelograms _____

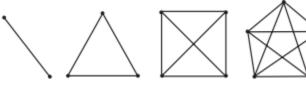
2. Observe the geometrical pattern and write the generalized statement for 'x'.

i.



No. of Dots	4	6	8	12	n
No. of Trapezium	1	2	3		

ii.

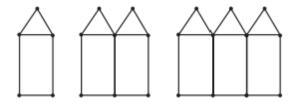


No. of Points	2	3	4	5	6	9	n
No. of lines Segments	1	3	6	10			

iii.

No. of squares	1	2	3	4	8	19	n		
No. of matchsticks	4	8	12						
No. of dots	4	7	10						

3. Construct the following patterns of houses with matchsticks.



Number of houses	1	2	3	5	8
Number of matchsticks	6	11			

Write the generalized statement for this pattern.

4. Observe the patterns given in the following numbers and find the 22nd, 36th and 45th term in each case:

5. Write the generalized statement for following number series:

6. Kabir is drawing a dot Rangoli. He has 11 dots in a row. How many dots will her Rangoli have for?