

VIDYA BHAWAN BALIKA VIDYA PITH

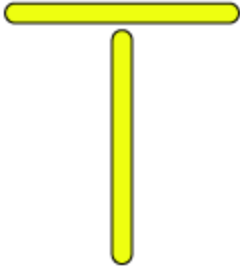
शक्तिउत्थानआश्रमलखीसरायबिहार

Class :-06(Maths)

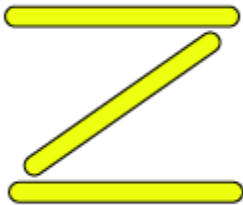
Date:- 02.01.2021

1. Find the rule which gives the number of matchsticks required to make the following matchsticks patterns. Use a variable to write the rule.

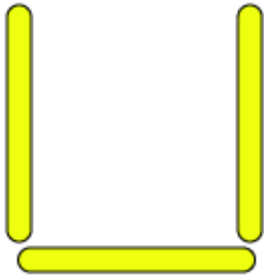
(a) A pattern of letter T as



(b) A pattern of letter Z as



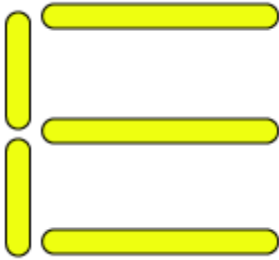
(c) A pattern of letter U as



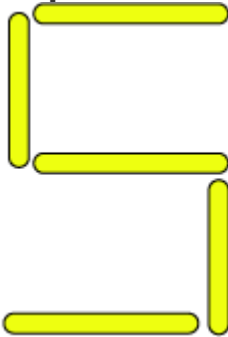
(d) A pattern of letter V as



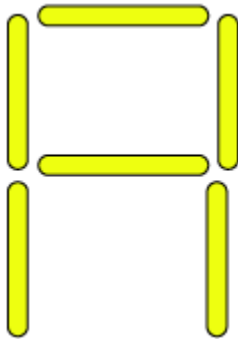
(e) A pattern of letter E as



(f) A pattern of letter S as

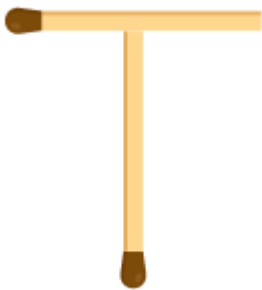


(g) A pattern of letter A as



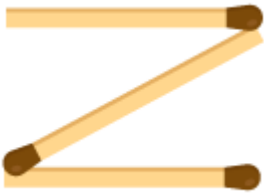
Solutions:

(a)



From the figure we observe that two matchsticks are required to make a letter T. Hence, the pattern is $2n$

(b)



From the figure we observe that three matchsticks are required to make a letter Z. Hence, the pattern is $3n$

(c)



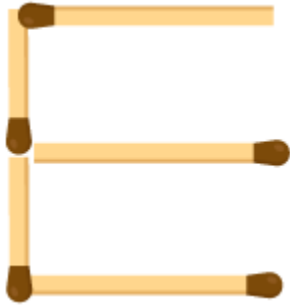
From the figure we observe that three matchsticks are required to make a letter U. Hence, the pattern is $3n$

(d)



From the figure we observe that two matchsticks are required to make a letter V. Hence, the pattern is $2n$

(e)



From the figure we observe that 5 matchsticks are required to make a letter E.
Hence, the pattern is $5n$

(f)



From the figure we observe that 5 matchsticks are required to make a letter S.
Hence, the pattern is $5n$

(g)



From the figure we observe that 6 matchsticks are required to make a letter A.
Hence, the pattern is $6n$