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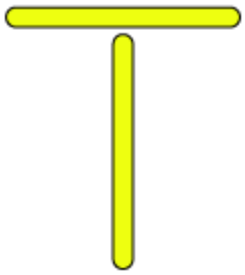
शक्तिउत्थानआश्रमलखीसरायबिहार

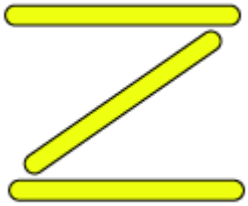
Class :- 06(Maths) Date:- 20.02.2021

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

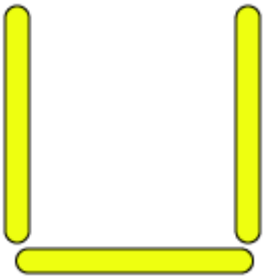
(a) A pattern of letter T as



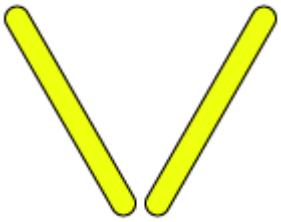
(b) A pattern of letter Z as



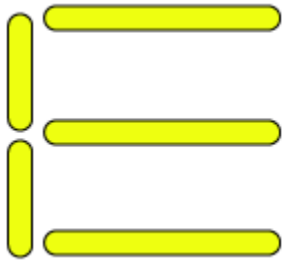
(c) A pattern of letter U as



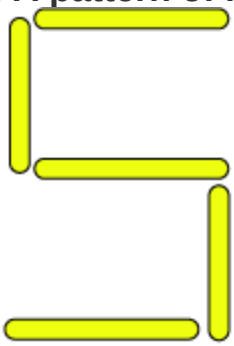
(d) A pattern of letter Vas



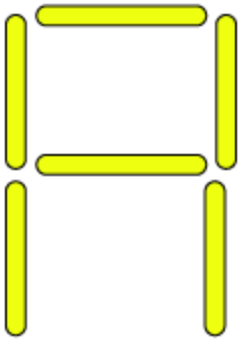
(e) A pattern of letter E as



(f) A pattern of letter S as

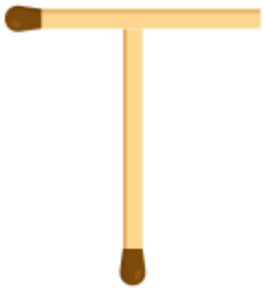


(g) A pattern of letter A as



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

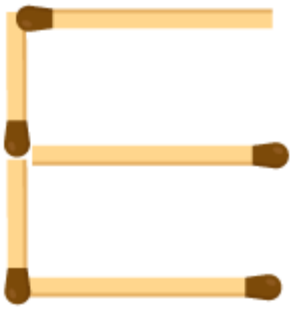
(c)

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