

- Q 107. In the figure below, the inner circles are filled with the prime factors of the numbers given in the outer circles. Each number from 1-26 corresponds to the letter in its position in the alphabet, A-Z. For instance, 1 is A, 2 is B, and so on.

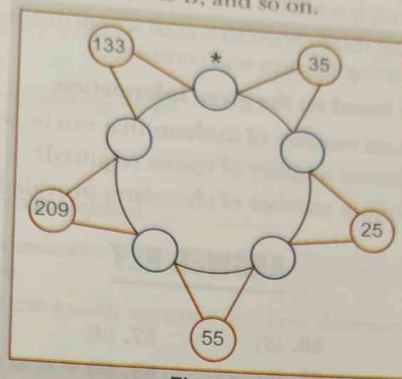


Fig. 1.7

Starting clockwise from \*, find the word formed by the numbers in the inner circle.

[CFQ by CBSE]

- Q 108. A rectangular arrangement of pens has rows and columns. Rohan takes away 3 rows of pens and then Sarah takes away 2 columns of pens from the remaining pens. The remaining pens are rearranged in  $p$  rows and  $q$  columns where  $p$  is a prime number.

If Rohan takes 24 pens and Sarah takes 18 pens, find all possible value(s) of  $p$ .

[CFQ by CBSE]

- Q 109. Find all pairs of positive integers whose sum is 91 and HCF is 13.

[CFQ by CBSE]

- Q 110.  $(n^2 + 3n - 4)$  can be expressed as a product of only 2 prime factors where  $n$  is a natural number. Find the value(s) of  $n$  for which the given expression is an even composite number.

[CFQ by CBSE]

- Q 111. On the two real numbers  $a = 2 + \sqrt{5}$  and  $b = 3 - \sqrt{7}$ , perform the following operations:

(i) Calculate the sum  $(a + b)$ . (ii) Calculate the product  $(ab)$ .

(iii) Find the additive inverse of  $a$ . (iv) Rationalise  $\frac{1}{b}$ .

(v) Verify whether the numbers  $a$  and  $b$  are rational or irrational. Provide a valid reason for your answer

[CFQ by CBSE]

- Q 112. (i) Find the LCM and HCF of 78, 91, and 195.

(ii) Check whether  $\text{LCM}(a, b, c) \times \text{HCF}(a, b, c) = a \times b \times c$  where  $a, b$  and  $c$  are natural numbers.

[CFQ by CBSE]

- Q 113. For the screening of an informational documentary, three schools were selected by the district administration.

Name of the school	Number of students
C.A.V. Public School	78
...	117
...	130



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Guru hamirpuria 27 June 2026 at 12:13 pm