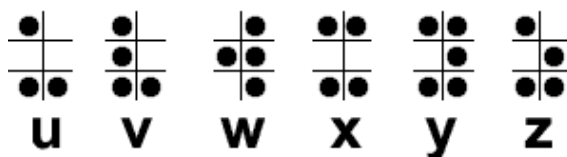
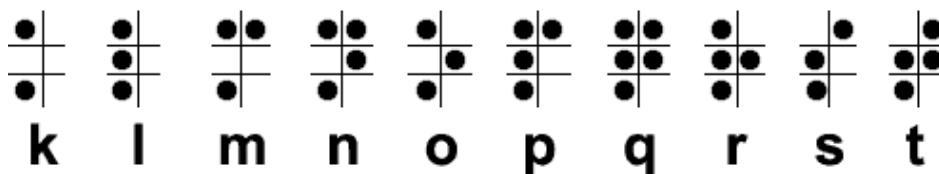
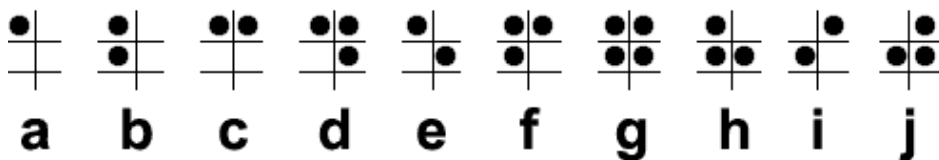


## The Braille Language System

The Braille system of writing used by blind people consists of a code of 63 characters. The characters are “combinations” of raised dots, ranging in number from 1 to 6.

Examples:



In how many ways can

1 of the 6 dots be raised?

$$\text{Solution: } {}_6C_1 = \frac{6!}{1!5!} = 6$$

2 of the 6 dots be raised?

3 of the 6 dots be raised?

4 of the 6 dots be raised?

5 of the 6 dots be raised?

6 of the 6 dots be raised?

Does the Braille code use every possible way of combining from 1 to 6 dots?

Sources: Jacobs, Harold R. *Mathematics: A Human Endeavor*. San Francisco: W.H. Freeman and Company, 1982.  
<http://www.afb.org/braillebug/>

