

## Combinations Examples with SimBraille

1. Seven choose five is written

$$C(7,5) \quad \text{or} \quad C_{7,5} \quad \text{or}$$

$${}_7C_5 \quad \text{or} \quad \binom{7}{5}$$

$$\begin{matrix} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \end{matrix}$$

2. n choose r is written

$$C(n,r) \quad \text{or} \quad C_{n,r} \quad \text{or}$$

$${}_nC_r \quad \text{or} \quad \binom{n}{r}$$

$$\begin{matrix} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \end{matrix}$$

3. The number of combinations of n objects taken r at a time is written

$${}_nC_r \quad \text{or} \quad {}_nC_r$$

$$\begin{matrix} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \end{matrix}$$

4. The number of combinations of five objects taken three at a time is written

$${}_5C_3 \quad \text{or} \quad C_{5,3}$$

$$\begin{matrix} \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots \end{matrix}$$