Calculating a Permuation

In mathematics, to calculate the permutation of n things taken r at a time, we use the formula $_{n}P_{r}=\frac{n!}{(n-r)!}$. The TI-83/84 has this formula already built in.

To calculate $_{10}P_7 = \frac{10!}{(10-7)!}$, on the home screen first press 10, then press the MATH key. Next

press the **RIGHT ARROW** key three times so that **PRB** is highlighted. Press **2** to select the permuation formula. Next type **7** and press **ENTER**. The results are shown below.

