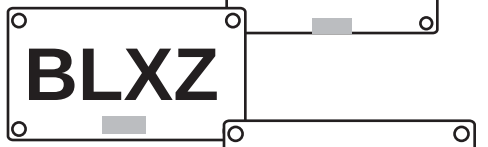
COUNTDOWN Challenge

Fundamental Counting Principle

License plates use digits (0-9) and letters of the alphabet (A-Z) to identify motor vehicles. You can find the **total** *number of unique plates if you use the* **fundamental counting principle** *(multiply the number of ways each event can occur). Then,* **design** *a license plate that will match each criteria.*

NUMBER OF POSSIBLE LICENSE PLATES

Fundamental Counting Priciple	Total	Design an example
10 (any digit) x 26 (any letter)	260	
36 (any digit or letter) x ____ (any digit)	360	
5 (odd digit) x 5 (even digit) x ____ (any digit)	____	
10 (A-J) x 5 (K-O) x ____ (P-X) x ____ (Y-Z)	900	
____ (A-J) x ____ (any digit) x ____ (K-T) x ____ (any digit)	____	
____ (A-J) x ____ (A-J) x ____ (A-J) x ____ (A-J)	____	
____ (A-J) x ____ (A-J) x ____ (A-Z) x ____ (A-J) x ____ (any digit)	____	
____ (Square #) (1,4,9) x ____ (Multiple of 3) (3,6,9) x ____ (Prime #) (2,3,5,7) x ____ (Fibonacci #) (1,2,3,5,8) x ____ (Powers of 2) (1,2,4,8) x ____ (Composite #) (4,6,8,9)	____