



Name _____

Let's play Scrabble

In Scrabble, each player chooses 7 letter tiles. The 100 tiles of the original game are in the distribution shown below. (There is a newer, deluxe version from 2004 that uses 200 tiles, but we will be using the 100 tile version.)

- 2 blank tiles (scoring 0 points)
- 1 point: E ×12, A ×9, I ×9, O ×8, N ×6, R ×6, T ×6, L ×4, S ×4, U ×4
- 2 points: D ×4, G ×3
- 3 points: B ×2, C ×2, M ×2, P ×2
- 4 points: F ×2, H ×2, V ×2, W ×2, Y ×2
- 5 points: K ×1
- 8 points: J ×1, X ×1
- 10 points: Q ×1, Z ×1

A	A	A	A	A	A	A	A	A	B
B	C	C	D	D	D	D	E	E	E
E	E	E	E	E	E	E	E	E	F
F	G	G	G	H	H	I	I	I	I
I	I	I	I	I	J	K	L	L	L
L	M	M	N	N	N	N	N	O	O
O	O	O	O	O	O	P	P	Q	Q
R	R	R	R	R	R	S	S	S	S
T	T	T	T	T	T	U	U	U	U
V	V	W	W	X	Y	Y	Z	•	•

This distribution of letters has not changed since Alfred Butts invented the game in 1938.

Now, answer the following questions (give answers as fractions, decimals and percents):

- 1) What is the probability of choosing an E if no tiles have been chosen?
- 2) What is the probability of choosing an "M" if 28 tiles have been chosen and 1 of them was an M?
- 3) What is the probability of choosing an "X" if 42 tiles have been chosen and 1 of them was an X.

