Drake Equation Worksheet

The Drake Equation: $N = N* f_s N_p f_e f_l f_i f_c f_t$

the number of technical civilizations in the Calaxy at present

N = the number of technical civilizations in	ine Gaiaxy at present
<u>Factors</u>	My Guess
N_* = the number of stars in our Galaxy	
	N* =
f_s = the fraction of all stars that are similar to the Sun	
	$ m f_{s} = ___$
N_p = the average number of planets per Sun-like star	
Typ - the average number of planets per Sun-like star	N _p =
	•
f _e = the fraction of planets about Sun-like stars that are	
	f _e =
f_l = the fraction of such planets on which life has actual	lly developed
	f _l =
f_i = the fraction of these planets on which intelligent lif	fe has evolved
	f _i =
f_c = the fraction of these planets on which a technical co	ivilization has developed
	$f_c = \underline{\hspace{1cm}}$
f _t = the fraction of time since the development of a plan civilization that a technical civilization has exis	
where L is the lifetime of an average technical	- · · · · · · · · · · · · · · · · · · ·
average time elapsed since the inception of a te	
planet estimated at about 3 billion years. (f_t	
	L = yrs
N = the number of Earth-like planets (orbiting Sun-like	e stars in the Galaxy) on which
a technical civilization currently exists,	
which equals the number of technical civilization	ons in the Galaxy at present.
$N*$ $x f_s x N_p x f_e x f_l x f_i x f_c$	v I. / t – N
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My Guess: x x x x x x x	x / 3 billion =