

Answers to the no-calculator math problem set

When problems involved logs, approximate answers were obtained using the log values given in the problem set.

Question	Answer method:	
	Calculator	Estimate
1		2×10^{93}
2		1×10^{86}
3		5.4×10^{-19}
4		3×10^{-5}
5		9×10^7
6	-3.699	-3.70
7	-5.301	-5.30
8	0.380	0.38
9	0.176	0.18
10	13.816	13.8
11	-14.732	-14.72
12	98.47	100
13	9977	10,000
14	49.88	50
15	0.0197	0.02
16	9.33×10^{-3}	9×10^{-3}
17	15.035	15
18	8.022	8
19	34,459	34,500
20	9.42×10^{17}	1×10^{18}
21	1.998×10^{-5}	2×10^{-5}
22		1×10^{-7}