

2013 Four-by-Four Competition
Answer Key

1.	2688	1	21.	47	21
2.	192	2	22.	$\frac{1}{4}$	22
3.	$\left\lceil \frac{25Q}{2K} \right\rceil$ or $\frac{25Q}{2K}$	3	23.	10	23
4.	225	4	24.	7	24
5.	-1	5	25.	$\frac{35}{256}$	25
6.	$-\frac{140}{9}$	6	26.	54	26
7.	$\frac{81}{2}$	7	27.	$14 + 42i$	27
8.	1020	8	28.	$\frac{3}{5}$	28
9.	91	9	29.	60	29
10.	55	10	30.	69,168	30
11.	$\frac{10}{7}$	11	31.	H	31
12.	720,054	12	32.	7,074,929	32
13.	64	13	33.	$2^5\sqrt{14}$	33
14.	$2\sqrt{61}$	14	34.	$-\frac{7}{3}$	34
15.	94	15	35.	840	35
16.	$\frac{1}{4}e^3 + \frac{1}{4}e$	16	36.	$24 - 16\sqrt{2}$	36
17.	5	17	37.	Octahedron	37
18.	208π	18	38.	98,777.9	38
19.	384	19	39.	-2	39
20.	$\frac{33}{56}$	20	40.	$\frac{5}{12}$	40

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