

2017 Four-by-Four Competition
Answer Key

1.	2	1	21.	32	21
2.	$12\sqrt{3}$	2	22.	$\frac{292}{45}$	22
3.	$\sqrt{5}$	3	23.	$\frac{1}{34}$	23
4.	1335	4	24.	$x = 3$	24
5.	$(0, -27)$	5	25.	$\left(\frac{9}{16}, -\frac{209}{32}\right)$	25
6.	$2\sqrt{33}$	6	26.	$\frac{\sqrt{46}}{2}$	26
7.	19	7	27.	23478	27
8.	$12\sqrt{53}$	8	28.	1864	28
9.	$[40 \ -36]$	9	29.	$546\sqrt{2}$	29
10.	.50	10	30.	$-9 - 8i$	30
11.	145	11	31.	38	31
12.	25	12	32.	5	32
13.	450	13	33.	$\frac{-1 \pm \sqrt{33}}{8}$	33
14.	$[-2, 2)$	14	34.	757	34
15.	$\sqrt{13}$	15	35.	80	35
16.	5689	16	36.	$\frac{341}{2}$	36
17.	(either order) 2, 6	17	37.	ABDC	37
18.	$\frac{5\sqrt{651}}{4}$	18	38.	$75\pi\sqrt{5}$	38
19.	$\frac{60}{91}$	19	39.	98	39
20.	121	20	40.	$(1, -1, -4, -6)$ (any order)	40

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