

2015 Four-by-Four Competition
Answer Key

1.	576π	1	21.	$3\sqrt{23}$	21
2.	9	2	22.	5683	22
3.	4,905	3	23.	4776	23
4.	12	4	24.	58.6875 or $\frac{939}{16}$ or $58\frac{11}{16}$	24
5.	4,836	5	25.	100	25
6.	10:50 AM	6	26.	1416	26
7.	18	7	27.	$316 + 12i$	27
8.	$\frac{\sqrt{6}}{6}$	8	28.	30	28
9.	$25\sqrt{35}$	9	29.	$6\sqrt[3]{60}$	29
10.	$7.\overline{307692}$ or $\frac{95}{13}$	10	30.	$6b^4 - 14b^3 + 56b - 96$	30
11.	(either order) 4, 2	11	31.	21	31
12.	152	12	32.	$.490\overline{740}$ or $\frac{53}{108}$	32
13.	$1.\overline{54}$ or $1\frac{6}{11}$ or $\frac{17}{11}$	13	33.	6	33
14.	(0'' optional) $11^\circ 12'$	14	34.	2132331 or 2132331_4	34
15.	380	15	35.	16301	35
16.	$7(9 + 6) - 4 \cdot 1$ (others =101)	16	36.	1,104,080.80	36
17.	$27.\overline{428571}$ or $27\frac{3}{7}$ or $\frac{192}{7}$	17	37.	1.2 or $1\frac{1}{5}$ or $\frac{6}{5}$	37
18.	$4\sqrt{51}$	18	38.	$.1\overline{6}$ or $\frac{1}{6}$	38
19.	$21j - 1$	19	39.	$8 + \sqrt{30}$	39
20.	120	20	40.	$\frac{15 \pm 3i\sqrt{15}}{10}$ or $\frac{3}{2} \pm \frac{3i\sqrt{15}}{10}$	40

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