

2013 Four-by-Four Competition  
Answer Key

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

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