

2018 Team Scramble Answer Key

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|--|----|------------------------|----|--|----|--|-----|
| 10,196 | 1 | $\frac{53\pi}{4}$ | 26 | $\frac{4}{3}$ | 51 | 2, 3, -12 | 76 |
| -400 | 2 | $\sqrt{7}$ | 27 | $\frac{56}{65}$ | 52 | 213,301 ₅ | 77 |
| 1800 | 3 | $4\sqrt{2}$ | 28 | $\pm \frac{\sqrt{6}}{3}$ | 53 | 792 | 78 |
| $\frac{211}{90}$ | 4 | 6 | 29 | $-\frac{3}{e}$ | 54 | 5 | 79 |
| Ten-thousandths or $\frac{1}{10,000}$ | 5 | 59 | 30 | $\frac{91}{30}$ | 55 | 966 | 80 |
| $\frac{39}{56}$ | 6 | $-\frac{3}{4}$ | 31 | $(-\infty - 4) \cup (2, \infty)$ | 56 | 817 | 81 |
| 161 | 7 | $[-5, \infty)$ | 32 | 281,664 | 57 | 3968 | 82 |
| III or 3 or 3rd or third | 8 | 541 ₁₀ | 33 | 24.26 | 58 | 4680 | 83 |
| $y = -3x - 19$ | 9 | 10520 ₉ | 34 | 33 | 59 | 4326 | 84 |
| $(-3, -7)$ | 10 | 3 | 35 | $8\sqrt{30}$ | 60 | $\frac{13}{9} + \frac{58\sqrt{3}}{27}$ | 85 |
| 93 | 11 | 3048 | 36 | 39 | 61 | .398 | 86 |
| $1, -\frac{7}{4}$ | 12 | 103 | 37 | $\frac{2a^2 + ab + ac - b^2 + 4bc - 3c^2}{b^2 + 4bc - 3c^2}$ | 62 | $\frac{7}{18}$ | 87 |
| $\frac{50}{69}$ | 13 | $\frac{12}{5}$ | 38 | $(\frac{25}{19}, -\frac{2}{19})$ | 63 | $\frac{999,999}{1,000,000}$ | 88 |
| 10 | 14 | 7 | 39 | F | 64 | $y = 16 - 3x = 9z + 10$ | 89 |
| 6, -2 | 15 | 435 | 40 | 54 | 65 | 112 | 90 |
| $(\frac{-7-\sqrt{85}}{2}, 0)$ | 16 | 52,488 | 41 | -6 | 66 | {2, 2, 3} | 91 |
| $\frac{7\sqrt{10}}{5}$ | 17 | $\frac{16}{17}$ | 42 | Trapezoid (+ bonus?) | 67 | 226 | 92 |
| 15 | 18 | $\frac{15}{43}$ | 43 | $4\sqrt{754}$ | 68 | 63,939 | 93 |
| 576 | 19 | 1728 | 44 | 10:21:49 AM | 69 | 40 | 94 |
| 54 | 20 | 15 | 45 | 44 | 70 | 3 | 95 |
| Isosceles | 21 | 19 | 46 | $\frac{3\sqrt{247}}{4}$ | 71 | $\frac{2 \cos^2 j - 1}{2 \cos j + \frac{1}{\cos j}}$ | 96 |
| 109 | 22 | -267 | 47 | $\frac{4\sqrt{70}}{11}$ | 72 | 3 | 97 |
| $4\pi\sqrt{2}$ | 23 | {3, 6, 7, 8, 9, 64.67} | 48 | $9 - 6\sqrt{2}$ | 73 | 8 | 98 |
| $8\sqrt{3}$ | 24 | 18 | 49 | 1,082,856.71 | 74 | 4 | 99 |
| $\frac{5}{12}$ | 25 | $1 + \sqrt{2}$ | 50 | $\frac{32\sqrt{5}}{5}$ | 75 | $\frac{256}{15}$ | 100 |