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Do **NOT** unfold this paper until  
the Contest Director  
gives you permission to do so!

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**THE UNIVERSITY INTERSCHOLASTIC LEAGUE**

# **Slide Rule Contest**

**Number S 15**

*(Special—Not for official contests)*

**Conference:** .....

**Contestant's Serial Number:** .....

**Date of Contest:** .....

**Location of Contest:** .....

**Contestant's Net Score:**.....

1.  $3.81 \times 0.445 \times 6.79$  ----- equals \_\_\_\_\_
2.  $0.0823 \times 4.92 \times 1.76$  ----- equals \_\_\_\_\_
3.  $3.88 \times 647 \times 0.217$  ----- equals \_\_\_\_\_
4.  $5040 \times 3.26 \times 0.116$  ----- equals \_\_\_\_\_
5.  $\frac{3.83}{6.47 \times 3.55}$  ----- equals \_\_\_\_\_
6.  $\frac{0.261 \times 49.2}{360}$  ----- equals \_\_\_\_\_
7.  $\frac{22.7 \times 6.91}{0.418 \times 3220}$  ----- equals \_\_\_\_\_
8.  $\frac{5.28 \times 3.61 \times 365}{0.878}$  ----- equals \_\_\_\_\_
9.  $\frac{0.00363}{0.141 \times 2.86 \times 0.492}$  ----- equals \_\_\_\_\_
10.  $\frac{63.8 \times 0.866 \times 0.0212}{14.8 \times 1.07}$  ----- equals \_\_\_\_\_
11.  $\frac{2.83 \times 7.61 \times 5.43}{0.218 \times 3.69 \times 0.548}$  ----- equals \_\_\_\_\_
12.  $\frac{0.0392 \times 8640 \times 37.1}{2.84 \times 3.86 \times 7.41 \times 1.68}$  ----- equals \_\_\_\_\_
13.  $\frac{0.396 \times 0.00488 \times 72,100}{0.409 \times 2.11 \times 0.0643}$  ----- equals \_\_\_\_\_
14.  $\frac{2.06 \times 14.1 \times 1.58 \times 32.6}{17.5 \times 9.01 \times 26.4 \times 5.02}$  ----- equals \_\_\_\_\_

15.  $\frac{\sqrt{21.6} \times 3.77 \times 0.0149}{6.27 \times 0.415 \times 0.307}$  ----- equals \_\_\_\_\_
16.  $\frac{0.221 \times \sqrt{1.75} \times 0.339}{\sqrt{0.614} \times 2.06 \times 1.83}$  ----- equals \_\_\_\_\_
17.  $\frac{3.61 \times (5.72)^2 \times 0.0173}{\sqrt{832} \times 0.209 \times 1630}$  ----- equals \_\_\_\_\_
18.  $\frac{640 \times 793 \times \sqrt{0.000216}}{0.828 \times (0.118)^2 \times 3.92}$  ----- equals \_\_\_\_\_
19.  $5.25 \times (175)^2 \times \sqrt{0.136} \times 0.252$  ----- equals \_\_\_\_\_
20.  $\frac{2.04 \times \sqrt{13.6} \times (0.00461)^2}{0.117 \times 2.66 \times 1.35 \times 4.66}$  ----- equals \_\_\_\_\_
21.  $\sqrt{0.0823} \times (1780)^2 \times 3.65 \times 8.08$  ----- equals \_\_\_\_\_
22.  $\frac{19.2 \times 14,600 \times (0.00325)^2}{0.818 \times 3.74 \times 16.2 \times 4.02}$  ----- equals \_\_\_\_\_
23.  $13,700,000 \times \sqrt{2.98} \times 0.0000117$  ----- equals \_\_\_\_\_
24.  $\frac{(0.407 \times 2.65)^2 \times 0.0694 \times 2.77}{2.05 \times \sqrt{1.75} \times 3.19 \times 0.665}$  ----- equals \_\_\_\_\_
25.  $\frac{0.0269 \times 42.5 \times (37.8)^3}{\sqrt{2.75} \times 1.64 \times 0.00817}$  ----- equals \_\_\_\_\_
26.  $\frac{(2.63 \times 0.115)^3 \times 39,400}{(27.6 \times 3.15)^2 \times 217 \times 663}$  ----- equals \_\_\_\_\_
27.  $\frac{\sqrt{0.0293} \times (0.525 \times 0.176)^2}{5.27 \times 6.18 \times 0.000335}$  ----- equals \_\_\_\_\_

$$28. \frac{\sqrt[3]{5.37} \times 2.16 \times 42,300}{3970 \times 67.5 \times \sqrt{12.2}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$29. \sqrt{\frac{0.143}{0.0227}} \times \frac{0.00293 \times 41.7}{(0.169 \times 0.382)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$30. (67,400 \times 298)^2 \times (0.0882 \times 0.113)^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$31. \sqrt[3]{\frac{7.28 \times 0.0155}{0.283 \times 0.664}} \times \sqrt{\frac{2.75}{1.62 \times 3.58}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$32. \frac{(8.92)^3 \times 3.66 \times 0.174 \times \sqrt{3.25}}{8.02 \times 17.6 \times (13.5 \times 0.0756)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$33. \frac{0.176 \times 3.54}{\sqrt{8.27 \times 15.4}} \times \left[ \frac{715 \times 825}{206 \times 378} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$34. \frac{92.7 \times \sqrt[3]{4.88}}{\sqrt{3.91 \times 0.0429}} \times \frac{8.66 \times 0.501}{(278 \times 0.326)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$35. \sqrt{\frac{15.7 \times 0.0296}{3.81 \times 5280}} \times \frac{(36.1 \times 77.4)^2}{0.825 \times 0.761} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$36. \frac{\pi \times 0.427 \times (0.883)^3 \times 0.00409}{13.6 \times (0.125 \times 0.224)^2 \times 3.91} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$37. \frac{\sqrt[3]{7.28 \times 5.26 \times 4.29 \times 6.13}}{0.0365 \times \pi \times 102,000 \times 0.156} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$38. \sqrt{\frac{0.0378}{0.00566}} \times \frac{(1.25 \times \pi^2 \times 13.8)^2}{1.54 \times 16 \times 3.42} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$39. \left[ \frac{9.71 \times 42,000}{3.62 \times 872} \right]^2 \times \frac{\sqrt[3]{1.66 \times 3.08}}{3.51 \times 6.42} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$40. \sqrt{\sqrt{5.29 \times 0.882} \times 3.21} \times \sqrt[3]{(0.427)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$41. \frac{3.75 \times (0.866 \times 1.73 \times 1.41)^2}{4.88 \times 0.0521 \times \pi \times 16 \times \sqrt{\pi}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$42. \frac{25,400,000 \times (0.0416 \times 0.15 \times \pi)^3}{0.826 \times (368 \times 742)^2 \times 7.45} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$43. \sqrt{\frac{2.97 \times \sqrt{14.7}}{0.724 \times 0.928}} \times \left[ \frac{\sqrt[3]{\pi} \times 0.765}{4.28 \times 0.747} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$44. \left[ \frac{13.2 \times 0.765}{4.04 \times 6.05} \right]^2 \times \sqrt{\frac{0.225 \times 14.7}{\pi \times 0.0000228}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$45. \frac{25 \times \sqrt{\pi} \times 32,000,000 \times 0.0275}{82.7 \times 3.66 \times (52.7 \times 0.926)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$46. \sqrt{\frac{165 \times \sqrt[3]{\pi}}{0.714 \times 5280}} \times \left[ \frac{92.7 \times 720}{463 \times 3790} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$47. \sqrt{\frac{8.26}{3720}} \times \left[ \frac{0.0426}{0.887} \right]^2 \times \left[ \frac{22 \times 73}{84,400} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$48. \frac{\sqrt{\pi} \times \pi^3 \times 0.494 \times 0.0000488}{(0.0382 \times 2.73 \times 6.06 \times 0.382)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$49. \left[ \frac{0.452 \times 0.379}{16.7 \times 2.88} \right]^3 \times \sqrt[3]{\frac{617 \times 348}{7260 \times 508}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$50. \left[ \sqrt[3]{2.61 \times 0.794} \right]^2 \times \sqrt{(0.565 \times 3.62)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$51. \frac{7.66 \times 0.219}{(483 \times 6170)^2} \times \sqrt{\frac{39.2 \times 86.7}{0.215 \times 0.055}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$52. \frac{8.74 \times 0.339 \times \sqrt[3]{13.6 \times 4.29}}{14.8 \times (0.627 \times \pi^2 \times 0.0328)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$53. \sqrt{\sqrt{\frac{0.397}{0.00226}}} \times \left[ \frac{\pi^2 \times 75 \times 3.86}{(9640 \times 0.362)^2} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$54. \frac{\left[ \sqrt{\pi} \times 9.68 \times 0.45 \right]^3 \times 0.000794}{0.0861 \times 4.25 \times \sqrt{0.392 \times 0.608}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$55. \left[ \frac{\sqrt[3]{83,600 \times 9.77}}{0.0000426 \times 37,800} \right]^2 \times \sqrt{\frac{2.6 \times 3.5}{0.000663}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$56. \sqrt{\frac{0.448}{0.00716}} \times \left[ \frac{36 \times \pi}{46,300} \right]^2 \times \left[ \frac{0.227}{0.813} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$57. \frac{\sqrt[3]{\frac{9.76}{0.0438}} \times 0.625 \times \frac{13}{16} \times (0.862)^2}{\sqrt{0.627 \times 4.23 \times 1.97 \times 0.00865}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$58. \left[ \frac{(\pi^3 \times 0.00397)^2}{0.216 \times 0.115} \right]^2 \times \frac{\sqrt{3.87 \times 1.45}}{0.665 \times 0.808} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$59. \sqrt{\frac{\left[ \frac{0.228}{0.764} \right]^3}{\sqrt{0.00526}}} \times \frac{0.392 \times 6430}{(772 \times 0.194)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$60. \frac{\sqrt{\sqrt{99.2 \times 0.0313 \times 2.68 \times 14.2}}}{19,400 \times \left[ \frac{0.42 \times 0.616}{3.91 \times 0.121} \right]^2 \times 0.0836} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$61. \left[ \frac{86,000 \times 276}{304 \times 0.297} \right]^3 \times \sqrt{\frac{0.0000000243}{\pi^3 \times 12 \times 1.6}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$62. \frac{\sqrt{\frac{\sqrt{\pi}}{0.446}}}{0.0392} \times \frac{\pi}{4} \times \frac{\sqrt[3]{\frac{2.6}{0.813}} \times 0.694}{0.0327 \times 704} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$63. \frac{\sqrt{\frac{6.62 \times 349 \times 0.212 \times 17}{0.276 \times 19.4 \times 3.62 \times 7.09}}}{\left[ (1.26 \times 0.414)^2 \times \pi \times 2.33 \right]^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$64. \left[ \left[ \frac{0.917}{1.45} \right]^2 \right]^2 \times \left[ \frac{3.72 \times 1.45 \times 92}{\sqrt{163 \times 0.22 \times 3.8}} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$65. \frac{\sqrt[3]{\frac{2.28 \times 1.5}{0.146 \times 0.392}}}{\sqrt{\frac{3.72 \times 1.68}{0.0419 \times 3.22}}} \times \left[ \frac{\pi^2 \times 0.0391}{\frac{2.76 \times 1.08}{13.6 \times 5.42}} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$66. \frac{\left[ \frac{\left[ \frac{3.79 \times 8.62}{2.65 \times 7.25} \right]^3}{\left[ \frac{9.66 \times 3.07}{5.32 \times 6.84} \right]^2} \right]^2 \times \sqrt{\frac{3.77}{\sqrt{\frac{0.873}{0.00279}}}}}{\hspace{10em}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$67. \frac{\sqrt{14.7 \times 0.000000927 \times 536}}{\sqrt[3]{(0.00263 \times \pi^2 \times 2.83 \times 96)^2}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$68. \sqrt{\frac{\left[\frac{2.88}{0.99}\right]^3}{0.0000276}} \times \frac{\sqrt[3]{\pi}}{108} \times \left[\frac{\frac{42}{25}}{(13)^2}\right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$69. \sqrt[3]{\frac{19,200 \times 1.28}{\left[\frac{378 \times 46}{23 \times 507}\right]^2}} \times \frac{0.0000771}{\sqrt{\frac{\pi^3 \times 255}{16.5 \times 1760}}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$70. \frac{\sqrt{275 \times 1,600,000} \times 5280 \times 2.54}{\left[\frac{8.27 \times 33.4}{1.82 \times 2.45}\right]^2 \times (0.45 \times 250)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$71. \sqrt{\frac{\sqrt{\frac{0.0496}{4.86 \times 3.08}}}{\sqrt[3]{3.86 \times 10.4}}} \times \left[\frac{\frac{\pi^2}{3} \times 0.967}{2.54 \times 3.12}\right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$72. \frac{\left[\frac{\left[\frac{2.76}{3.92}\right]^3}{\left[\frac{4.86}{5.09}\right]^2}\right]^2 \times \frac{19}{128} \times \frac{\sqrt{\frac{\pi}{1.52}}}{\sqrt[3]{\frac{1.4}{0.27}}}}{\hspace{10em}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$73. \frac{\sqrt[3]{\pi} \times \left[\frac{2.4 \times 0.66}{3.81 \times 54}\right]^2 \times \frac{2.49}{3.83}}{\sqrt{2.22 \times 6.08 \times 3.99 \times 9.42}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$74. \frac{\sqrt{\sqrt{\sqrt{(0.424 \times 6.13)^3}}}}{2.63 \times 0.41 \times 3.27} \times \frac{\left[\frac{0.008}{21 \times 63}\right]^3}{0.000000278} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$75. \frac{\left[(4.92 \times 0.212)^2 \times (0.743 \times 6.19)^3\right]^2}{\sqrt{\frac{2.09 \times 26.1}{149 \times 0.337}} \times \frac{\sqrt[3]{\pi}}{1.16} \times \frac{12 \times 1760}{38,000}} \text{ ----- equals } \underline{\hspace{2cm}}$$



|     |                        |                         |    |                         |
|-----|------------------------|-------------------------|----|-------------------------|
| 1.  | $1.15 \times 10^1$     | $(1.13 \times 10^1$     | to | $1.17 \times 10^1)$     |
| 2.  | $7.13 \times 10^{-1}$  | $(7.11 \times 10^{-1}$  |    | $7.15 \times 10^{-1})$  |
| 3.  | $5.45 \times 10^2$     | $(5.43 \times 10^2$     |    | $5.47 \times 10^2)$     |
| 4.  | $1.91 \times 10^3$     | $(1.89 \times 10^3$     |    | $1.93 \times 10^3)$     |
| 5.  | $1.67 \times 10^{-1}$  | $(1.65 \times 10^{-1}$  |    | $1.69 \times 10^{-1})$  |
| 6.  | $3.57 \times 10^{-2}$  | $(3.55 \times 10^{-2}$  |    | $3.59 \times 10^{-2})$  |
| 7.  | $1.17 \times 10^{-1}$  | $(1.15 \times 10^{-1}$  |    | $1.19 \times 10^{-1})$  |
| 8.  | $7.92 \times 10^3$     | $(7.90 \times 10^3$     |    | $7.94 \times 10^3)$     |
| 9.  | $1.83 \times 10^{-2}$  | $(1.81 \times 10^{-2}$  |    | $1.85 \times 10^{-2})$  |
| 10. | $7.40 \times 10^{-2}$  | $(7.38 \times 10^{-2}$  |    | $7.42 \times 10^{-2})$  |
| 11. | $2.65 \times 10^2$     | $(2.63 \times 10^2$     |    | $2.67 \times 10^2)$     |
| 12. | $9.21 \times 10^1$     | $(9.19 \times 10^1$     |    | $9.23 \times 10^1)$     |
| 13. | $2.51 \times 10^3$     | $(2.49 \times 10^3$     |    | $2.53 \times 10^3)$     |
| 14. | $7.16 \times 10^{-2}$  | $(7.14 \times 10^{-2}$  |    | $7.18 \times 10^{-2})$  |
| 15. | $3.27 \times 10^{-1}$  | $(3.25 \times 10^{-1}$  |    | $3.29 \times 10^{-1})$  |
| 16. | $3.36 \times 10^{-2}$  | $(3.34 \times 10^{-2}$  |    | $3.38 \times 10^{-2})$  |
| 17. | $2.08 \times 10^{-4}$  | $(2.06 \times 10^{-4}$  |    | $2.10 \times 10^{-4})$  |
| 18. | $1.65 \times 10^5$     | $(1.63 \times 10^5$     |    | $1.67 \times 10^5)$     |
| 19. | $1.49 \times 10^4$     | $(1.47 \times 10^4$     |    | $1.51 \times 10^4)$     |
| 20. | $8.17 \times 10^{-5}$  | $(8.15 \times 10^{-5}$  |    | $8.19 \times 10^{-5})$  |
| 21. | $2.68 \times 10^7$     | $(2.66 \times 10^7$     |    | $2.70 \times 10^7)$     |
| 22. | $1.49 \times 10^{-2}$  | $(1.47 \times 10^{-2}$  |    | $1.51 \times 10^{-2})$  |
| 23. | $2.77 \times 10^2$     | $(2.75 \times 10^2$     |    | $2.79 \times 10^2)$     |
| 24. | $6.94 \times 10^{-2}$  | $(6.92 \times 10^{-2}$  |    | $6.96 \times 10^{-2})$  |
| 25. | $3.56 \times 10^6$     | $(3.54 \times 10^6$     |    | $3.58 \times 10^6)$     |
| 26. | $1.00 \times 10^{-6}$  | $(9.80 \times 10^{-7}$  |    | $1.02 \times 10^{-6})$  |
| 27. | $1.34 \times 10^{-1}$  | $(1.32 \times 10^{-1}$  |    | $1.36 \times 10^{-1})$  |
| 28. | $1.71 \times 10^{-1}$  | $(1.69 \times 10^{-1}$  |    | $1.73 \times 10^{-1})$  |
| 29. | $7.36 \times 10^1$     | $(7.34 \times 10^1$     |    | $7.38 \times 10^1)$     |
| 30. | $3.99 \times 10^8$     | $(3.97 \times 10^8$     |    | $4.01 \times 10^8)$     |
| 31. | $5.81 \times 10^{-1}$  | $(5.79 \times 10^{-1}$  |    | $5.83 \times 10^{-1})$  |
| 32. | 5.54                   | (5.52                   |    | 5.56)                   |
| 33. | 3.17                   | (3.15                   |    | 3.19)                   |
| 34. | $2.24 \times 10^{-3}$  | $(2.22 \times 10^{-3}$  |    | $2.26 \times 10^{-3})$  |
| 35. | $5.98 \times 10^4$     | $(5.96 \times 10^4$     |    | $6.00 \times 10^4)$     |
| 36. | $9.06 \times 10^{-2}$  | $(9.04 \times 10^{-2}$  |    | $9.08 \times 10^{-2})$  |
| 37. | $5.49 \times 10^{-3}$  | $(5.47 \times 10^{-3}$  |    | $5.51 \times 10^{-3})$  |
| 38. | $8.89 \times 10^2$     | $(8.87 \times 10^2$     |    | $8.91 \times 10^2)$     |
| 39. | $1.28 \times 10^3$     | $(1.26 \times 10^3$     |    | $1.30 \times 10^3)$     |
| 40. | 1.49                   | (1.47                   |    | 1.51)                   |
| 41. | $7.39 \times 10^{-1}$  | $(7.37 \times 10^{-1}$  |    | $7.41 \times 10^{-1})$  |
| 42. | $4.17 \times 10^{-10}$ | $(4.15 \times 10^{-10}$ |    | $4.19 \times 10^{-10})$ |
| 43. | $5.06 \times 10^{-1}$  | $(5.04 \times 10^{-1}$  |    | $5.08 \times 10^{-1})$  |
| 44. | $3.67 \times 10^1$     | $(3.65 \times 10^1$     |    | $3.69 \times 10^1)$     |
| 45. | $5.41 \times 10^1$     | $(5.39 \times 10^1$     |    | $5.43 \times 10^1)$     |
| 46. | $3.67 \times 10^{-4}$  | $(3.65 \times 10^{-4}$  |    | $3.69 \times 10^{-4})$  |
| 47. | $7.49 \times 10^{-10}$ | $(7.47 \times 10^{-10}$ |    | $7.51 \times 10^{-10})$ |
| 48. | $2.27 \times 10^{-2}$  | $(2.25 \times 10^{-2}$  |    | $2.29 \times 10^{-2})$  |
| 49. | $1.75 \times 10^{-8}$  | $(1.73 \times 10^{-8}$  |    | $1.77 \times 10^{-8})$  |
| 50. | 4.75                   | (4.73                   |    | 4.77)                   |
| 51. | $1.01 \times 10^{-10}$ | $(9.90 \times 10^{-11}$ |    | $1.03 \times 10^{-10})$ |
| 52. | $1.88 \times 10^1$     | $(1.86 \times 10^1$     |    | $1.90 \times 10^1)$     |
| 53. | $4.70 \times 10^{-11}$ | $(4.68 \times 10^{-11}$ |    | $4.72 \times 10^{-11})$ |
| 54. | 2.05                   | (2.03                   |    | 2.07)                   |
| 55. | $3.95 \times 10^5$     | $(3.93 \times 10^5$     |    | $3.97 \times 10^5)$     |
| 56. | $1.03 \times 10^{-6}$  | $(1.01 \times 10^{-6}$  |    | $1.05 \times 10^{-6})$  |
| 57. | $8.24 \times 10^1$     | $(8.22 \times 10^1$     |    | $8.26 \times 10^1)$     |
| 58. | 1.64                   | (1.62                   |    | 1.66)                   |
| 59. | $6.80 \times 10^{-2}$  | $(6.78 \times 10^{-2}$  |    | $6.82 \times 10^{-2})$  |
| 60. | $1.69 \times 10^{-2}$  | $(1.67 \times 10^{-2}$  |    | $1.71 \times 10^{-2})$  |
| 61. | $1.16 \times 10^{11}$  | $(1.14 \times 10^{11}$  |    | $1.18 \times 10^{11})$  |
| 62. | 1.77                   | (1.75                   |    | 1.79)                   |
| 63. | $9.85 \times 10^{-1}$  | $(9.83 \times 10^{-1}$  |    | $9.87 \times 10^{-1})$  |
| 64. | $1.23 \times 10^4$     | $(1.21 \times 10^4$     |    | $1.25 \times 10^4)$     |
| 65. | $1.96 \times 10^2$     | $(1.94 \times 10^2$     |    | $1.98 \times 10^2)$     |
| 66. | $2.53 \times 10^1$     | $(2.51 \times 10^1$     |    | $2.55 \times 10^1)$     |
| 67. | $2.32 \times 10^{-2}$  | $(2.30 \times 10^{-2}$  |    | $2.34 \times 10^{-2})$  |
| 68. | $1.26 \times 10^{-5}$  | $(1.24 \times 10^{-5}$  |    | $1.28 \times 10^{-5})$  |
| 69. | $3.29 \times 10^{-3}$  | $(3.27 \times 10^{-3}$  |    | $3.31 \times 10^{-3})$  |
| 70. | $5.15 \times 10^{-2}$  | $(5.13 \times 10^{-2}$  |    | $5.17 \times 10^{-2})$  |
| 71. | $2.09 \times 10^{-2}$  | $(2.07 \times 10^{-2}$  |    | $2.11 \times 10^{-2})$  |
| 72. | $1.81 \times 10^{-2}$  | $(1.79 \times 10^{-2}$  |    | $1.83 \times 10^{-2})$  |
| 73. | $2.51 \times 10^{-6}$  | $(2.49 \times 10^{-6}$  |    | $2.53 \times 10^{-6})$  |
| 74. | $3.23 \times 10^{-10}$ | $(3.21 \times 10^{-10}$ |    | $3.25 \times 10^{-10})$ |
| 75. | $1.53 \times 10^4$     | $(1.51 \times 10^4$     |    | $1.55 \times 10^4)$     |

UNIVERSITY  
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