

---

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

---

**THE UNIVERSITY INTERSCHOLASTIC LEAGUE**

# **Slide Rule Contest**

Number S-33

*(Special—Not for official contests)*

Conference: .....

Contestant's Serial Number: .....

Date of Contest: .....

Location of Contest: .....

Contestant's Net Score:.....

1.  $4.82 \times 0.317 \times 2.46$  ----- equals \_\_\_\_\_
2.  $0.261 \times 19.2 \times 0.774 \times 3.68$  ----- equals \_\_\_\_\_
3.  $\frac{0.323 \times 4.06}{16.2 \times 7.34}$  ----- equals \_\_\_\_\_
4.  $\frac{1.73 \times 0.838 \times 0.404}{72.3 \times 6.24}$  ----- equals \_\_\_\_\_
5.  $\frac{8.49 \times 56.3}{0.272 \times 6.43 \times 0.884}$  ----- equals \_\_\_\_\_
6.  $\frac{3.29 \times 0.0446 \times 5.75}{21.3 \times 0.726 \times 14.7}$  ----- equals \_\_\_\_\_
7.  $\frac{27.6 \times 0.339 \times 9.71}{4.22 \times 0.0381 \times 5.27}$  ----- equals \_\_\_\_\_
8.  $\frac{2.35 \times 0.116 \times 19.7}{4.21 \times 17.2 \times 0.543 \times 10.6}$  ----- equals \_\_\_\_\_
9.  $\frac{15.2 \times 0.0391 \times 627 \times 5.38}{17.7 \times 0.336 \times 8.37}$  ----- equals \_\_\_\_\_
10.  $\frac{0.263 \times 8.47 \times 3.29 \times 17.6}{4.25 \times 13.2 \times 6.45 \times 0.225}$  ----- equals \_\_\_\_\_
11.  $\frac{82.6 \times 4.52 \times 0.717 \times 5280}{2.76 \times 36.6 \times 15.2 \times 0.0373}$  ----- equals \_\_\_\_\_
12.  $\frac{21.6 \times 0.334 \times 94.2 \times 6.74}{0.617 \times 2.83 \times 17.5 \times 0.843 \times 1.67}$  ----- equals \_\_\_\_\_
13.  $\frac{13.8 \times 0.00249 \times 1.38 \times 4.61 \times 0.207}{0.818 \times 37.6 \times 6.24 \times 3.82}$  ----- equals \_\_\_\_\_

$$14. \frac{16.2 \times 9.41 \times 0.131 \times 3.43 \times 0.438}{0.00234 \times 34.6 \times 0.117 \times 4.32 \times 0.0145} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$15. \frac{\sqrt{1.43} \times 0.246 \times 0.0827 \times 6.22}{31.7 \times 1.25 \times 20.4 \times 0.393} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$16. \frac{4.07 \times 0.866 \times 3.27 \times \sqrt{0.627}}{0.281 \times \sqrt{13.4} \times 12.3 \times 9.04} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$17. (5.27)^2 \times 0.337 \times \sqrt{1.13} \times 0.00455 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$18. \frac{13,200 \times 0.434 \times (0.276)^2 \times 0.136}{4.25 \times 10.2 \times 0.193 \times 1.44 \times 3.27} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$19. 15.4 \times \sqrt{0.0376} \times 0.217 \times (3.13)^2 \times 1.72 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$20. \frac{0.000462 \times 19.2 \times \sqrt{4.63} \times (1.45)^2}{\sqrt{2.36} \times 0.425 \times 30.6 \times 324} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$21. \frac{3.47 \times (21.6)^2 \times 4.76 \times 0.0837}{\sqrt{0.726} \times 1640 \times 2.11 \times 64.7} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$22. 0.229 \times \sqrt{418} \times 0.0387 \times 1.44 \times 1.86 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$23. \frac{\sqrt{1.66 \times 0.487} \times 3.84 \times 5280}{0.126 \times (0.374)^2 \times 1.87 \times 0.304} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$24. \frac{5.43 \times (0.617 \times 0.836)^2 \times 0.00178}{\sqrt{14.7} \times 30.5 \times 2.69 \times 27.6} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$25. \frac{(3.63)^3 \times 0.000437 \times 21.6 \times 0.524}{0.617 \times \sqrt{12.3 \times 1.38} \times 0.00529} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$26. \frac{4.27 \times (0.0261 \times 3.86)^3 \times 0.00414}{\sqrt{0.0275 \times 0.116 \times 13.4 \times 0.876}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$27. \frac{2640 \times 0.00331 \times \sqrt{19.2} \times 0.317}{(4.29 \times 0.00463)^2 \times 365 \times 0.218} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$28. \frac{\sqrt[3]{5.86} \times 174 \times \sqrt{0.0274 \times 1.83}}{76.5 \times 0.225 \times 31.6 \times 0.0495} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$29. 2.26 \times (0.371 \times 1.45)^3 \times 1.83 \times 2.76 \times 3.14 \text{ -- equals } \underline{\hspace{2cm}}$$

$$30. \left[ \frac{2.04 \times 0.191}{0.668 \times 10.3} \right]^2 \times \frac{\sqrt[3]{0.878} \times 1430}{21.6 \times 0.0753} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$31. \frac{0.0000527 \times 7.69 \times (41.7 \times 38.2)^2}{45.2 \times 129 \times 3.68 \times 4.27 \times 1.55} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$32. \sqrt{\frac{0.267 \times 1.48}{0.0458 \times 0.375}} \times \frac{9.36 \times (0.0157)^3}{27.6 \times 10.6} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$33. \frac{21,400 \times 0.0217}{0.0254 \times 34.6} \times \left[ \frac{7.46 \times 0.293}{0.785 \times 5.26} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$34. \frac{10.6 \times 0.837}{4.29 \times 0.523} \times \sqrt{\frac{1.85 \times 2.67}{0.493 \times 0.726}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$35. \sqrt[3]{\frac{2.73}{0.882}} \times \frac{\sqrt{7.46 \times 0.0213 \times 1620}}{0.0273 \times 78.2 \times 0.316} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$36. \frac{\pi \times (4.06 \times 0.00317 \times 63.9)^3}{2.49 \times 0.000138 \times 27.4 \times 0.882} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$37. \left[ \frac{0.817 \times \pi \times 0.000219}{3.42 \times 0.615 \times 0.278} \right]^2 \times \sqrt{\frac{27.1}{0.0413}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$38. \sqrt{\frac{0.274 \times 16.1}{3.75 \times 0.00604}} \times \frac{\pi^2 \times 87.4}{25 \times 2.46} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$39. \frac{\sqrt[3]{38 \times 45 \times 24 \times 72} \times 0.00000426}{0.773 \times 0.923 \times 0.164 \times 1.29 \times 8.36} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$40. \left[ \frac{3.28}{42.7} \right]^2 \times \sqrt{\frac{1.66}{0.0272}} \times \frac{12 \times \pi \times 22}{0.0249 \times 14} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$41. \left[ 1.43 \times (2.06 \times 1.51)^2 \times 6.78 \right]^2 \times 0.0000717 \text{ equals } \underline{\hspace{2cm}}$$

$$42. \frac{13.6 \times \sqrt[3]{\pi} \times 2.73 \times \pi \times \sqrt{0.0497}}{0.0614 \times (0.152 \times 3.68)^2 \times 0.0064} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$43. \frac{0.848 \times \left[ 2.61 \times (0.14)^3 \right]^2 \times 316,000}{(4.83 \times 0.672)^3 \times 39.2 \times 17 \times 1.25} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$44. \left[ \frac{1.45 \times 0.727}{(12 \times 1.3)^3} \right]^2 \times \sqrt{\frac{3.27 \times 1.8}{0.49 \times 0.616}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$45. \frac{0.00000227 \times 863 \times 0.228 \times 0.0743}{\sqrt[3]{0.615 \times 0.14} \times \sqrt{\pi} \times 31.7 \times 2.35} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$46. \sqrt{\frac{\pi}{25.4}} \times \frac{310,000 \times 0.0724 \times 0.134}{27 \times 16.2 \times 0.64 \times 0.518} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$47. \frac{13.6 \times \sqrt[3]{\pi} \times 17}{2100 \times 0.000666} \times \left[ \frac{474 \times 2.6}{3.8 \times 625} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$48. \frac{\sqrt{0.627 \times 0.44 \times 3.25 \times 0.00273}}{0.00629 \times 76.3 \times 1.28 \times 0.000374} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$49. \sqrt{\frac{0.613 \times 2.55}{\sqrt{1.39 \times 0.0415}}} \times \frac{(3.62 \times 0.428)^2}{55 \times 3.72 \times 283} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$50. \frac{1.46 \times \pi^3 \times 1,620,000 \times 0.0837}{(365 \times 2.86)^2 \times 0.0433 \times 0.152} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$51. \frac{\sqrt{2.63 \times (1.85 \times 0.227)^3 \times 0.0345}}{20.6 \times 3.45 \times 0.924 \times \pi \times 0.726} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$52. \frac{3.62 \times 32,000 \times 0.0172 \times 42 \times 0.61}{(0.654 \times 7.26 \times 10.2 \times 0.00272)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$53. \left[ \frac{1.68}{7.44} \right]^2 \times \sqrt{\frac{371}{0.927}} \times \frac{0.0383 \times 0.507}{12 \times 0.32 \times 1.7} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$54. \left[ \frac{21.7 \times 0.000484}{0.627 \times 0.144} \right]^2 \times \frac{21,600 \times 0.452}{(36.2 \times 0.18)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$55. \sqrt{\frac{0.35 \times 1.92}{\sqrt{\frac{3.07 \times 1.5}{0.212 \times 1.49}}}} \times \frac{0.00332 \times 0.00502}{\frac{17}{64} \times \frac{1.99 \times 26}{(12 \times \pi)^2}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$56. \frac{316,000 \times 0.225 \times \sqrt{0.043 \times 0.128}}{(1.27 \times \pi^3 \times 3.44 \times 16)^2 \times 0.0025} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$57. \frac{\sqrt{2.72 \times 1.66}}{\left[ \frac{41.7 \times 5.69}{6.75 \times 30.2} \right]^2} \times \frac{31.6 \times 0.000409}{0.0215 \times \frac{\pi^2}{25}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$58. \frac{\left[ \frac{15}{32} \right]^3 \times 0.607 \times \sqrt{\frac{1.88 \times 0.428}{15.2 \times 0.000337}}}{0.492 \times (5.64 \times 13.2 \times 0.606 \times 1.4)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$59. \frac{\sqrt{0.00216 \times 4.07 \times 0.0937 \times 0.0475}}{15 \times 1.6 \times 0.23 \times 0.15 \times \pi \times 1.7} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$60. \left[ \frac{\left[ \frac{3.78}{21.6} \right]^2}{0.0816} \right]^2 \times \frac{\sqrt{\sqrt{3.72} \times \frac{21.7 \times 0.492}{0.637 \times 1.77}}}{0.0276 \times 31.5 \times 0.00933} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$61. \sqrt{\frac{\sqrt{2.86 \times 0.0514}}{(1.37 \times 0.726)^3}} \times \frac{0.217 \times 4360}{12 \times \pi \times 62.7} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$62. \frac{0.223 \times 1.6 \times 3.42 \times \pi^3 \times 12 \times \sqrt{\pi}}{\left[ \sqrt[3]{\frac{3.86}{0.0492}} \times \frac{6.86}{21.4} \times \left[ \frac{17.4 \times 0.262}{0.524 \times 3.86} \right]^2 \right]^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$63. \sqrt{\frac{0.033}{\sqrt{\frac{1.77}{0.0826}}}} \times \left[ \frac{1.46}{\left[ \frac{2}{9} \right]^2} \right]^2 \times \frac{21,600 \times 0.125}{41.2 \times 0.0396} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$64. \frac{\sqrt{\sqrt{\frac{3.29 \times 1.24}{0.256 \times 0.927}} \times \frac{61.7}{3.48} \times \frac{2.61}{13.5}}}{(1.66 \times 0.00225 \times 15.2 \times 13,600)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$65. \frac{\left[ (1.27 \times 0.551)^2 \times 4.77 \right]^2 \times \sqrt[3]{0.00417}}{15.7 \times \pi \times \sqrt{4.69 \times 15 \times 0.262}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$66. \frac{\left[ \frac{5.28 \times 9.25}{2.48 \times 36.7} \right]^2}{1.79 \times 0.00616} \times \frac{\sqrt[3]{\pi}}{15} \times \frac{17,600}{36 \times \pi^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$67. \left[ \frac{(15)^3}{\left[ \frac{36}{27} \right]^2} \right]^2 \times \frac{0.0438}{\sqrt{\frac{1.78}{0.619}}} \times \frac{0.17 \times 28.8}{(13)^3 \times \frac{687}{423}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$68. \frac{[1.66 \times (13.7 \times 0.041)^2 \times (0.492 \times 3.16)^3]^2}{\sqrt{0.145} \times \sqrt{27.6 \times 19.2} \times 1.46 \times \sqrt[3]{\pi \times 12}} - \text{equals } \underline{\hspace{2cm}}$$

$$69. \frac{\sqrt{\frac{2600 \times 0.14 \times 0.075}{0.217 \times 4.66 \times 3.81}} \times \sqrt[3]{\frac{3.65}{41.7}}}{\frac{2.85}{14.7} \times \left[ \frac{0.0484 \times 1.61 \times 17}{\pi \times 0.0491 \times 0.00637} \right]^2} \text{----- equals } \underline{\hspace{2cm}}$$

$$70. \sqrt{\sqrt{\frac{0.876}{[\sqrt{3.91}]^3}} \times \left[ \frac{(3.52)^2}{(0.774)^3} \right]^3 \times \left[ \frac{28 \times 16 \times 74}{(35 \times 22 \times 45)^2} \right]^2} = \underline{\hspace{2cm}}$$

$$71. \sqrt{\frac{\sqrt{\frac{12 \times \pi \times 3.5}{0.227 \times 0.0495}}}{\sqrt[3]{12,400 \times 0.862}} \times \frac{\sqrt[3]{\pi}}{36} \times \frac{12 \times 1.5}{0.0000662}}{(0.27 \times 11,300)^2} \text{----- equals } \underline{\hspace{2cm}}$$

$$72. \frac{\sqrt{\frac{3.66 \times 0.145}{0.822 \times 0.0661}} \times \frac{37.2}{8.64} \times \left[ \frac{46}{39} \right]^3}{[(7.36 \times 0.0812)^2 \times 382 \times 0.000426]^2} \text{----- equals } \underline{\hspace{2cm}}$$

$$73. \frac{\sqrt{(2.91 \times 0.0476)^3 \times 31.7 \times (0.0825)^3}}{\frac{28 \times 64}{31 \times 52} \times \left[ \frac{0.00452 \times 16.2 \times 8.43}{\sqrt[3]{\pi} \times 0.449 \times 0.0637} \right]^2} \text{----- equals } \underline{\hspace{2cm}}$$

$$74. \sqrt{\frac{\sqrt{0.227 \times \sqrt{1.43}}}{\left[ \frac{31.7 \times 0.0816}{0.439 \times 0.285} \right]^3} \times \frac{2,800,000 \times 0.379}{\left[ (4.63)^2 \times \frac{32 \times 65}{0.00284} \right]^2}} - \text{equals } \underline{\hspace{2cm}}$$

$$75. \frac{(94 \times 66 \times 82)^3}{\left[ \frac{2,460,000,000}{(88)^2 \times 0.939} \right]^2} \times \frac{0.946 \times 78.5}{\sqrt{\sqrt{\sqrt{3.27} \times 2.88}}} \text{----- equals } \underline{\hspace{2cm}}$$



## SLIDE RULE ANSWER KEY S-33

1. 3.76	3.74	to	3.78
2. $1.43 \times 10^1$	$1.41 \times 10^1$		$1.45 \times 10^1$
3. $1.10 \times 10^{-2}$	$1.08 \times 10^{-2}$		$1.12 \times 10^{-2}$
4. $1.30 \times 10^{-3}$	$1.28 \times 10^{-3}$		$1.32 \times 10^{-3}$
5. $3.09 \times 10^2$	$3.07 \times 10^2$		$3.11 \times 10^2$
6. $3.71 \times 10^{-3}$	$3.69 \times 10^{-3}$		$3.73 \times 10^{-3}$
7. $1.07 \times 10^2$	$1.05 \times 10^2$		$1.09 \times 10^2$
8. $1.29 \times 10^{-2}$	$1.27 \times 10^{-2}$		$1.31 \times 10^{-2}$
9. $4.03 \times 10^1$	$4.01 \times 10^1$		$4.05 \times 10^1$
10. 1.58	1.56		1.60
11. $2.47 \times 10^4$	$2.45 \times 10^4$		$2.49 \times 10^4$
12. $1.06 \times 10^2$	$1.04 \times 10^2$		$1.08 \times 10^2$
13. $6.17 \times 10^{-5}$	$6.15 \times 10^{-5}$		$6.19 \times 10^{-5}$
14. $5.06 \times 10^4$	$5.04 \times 10^4$		$5.08 \times 10^4$
15. $4.76 \times 10^{-4}$	$4.74 \times 10^{-4}$		$4.78 \times 10^{-4}$
16. $7.98 \times 10^{-2}$	$7.96 \times 10^{-2}$		$8.00 \times 10^{-2}$
17. $4.53 \times 10^{-2}$	$4.51 \times 10^{-2}$		$4.55 \times 10^{-2}$
18. 1.51	1.49		1.53
19. $1.09 \times 10^1$	$1.07 \times 10^1$		$1.11 \times 10^1$
20. $6.20 \times 10^{-6}$	$6.18 \times 10^{-6}$		$6.22 \times 10^{-6}$
21. $3.38 \times 10^{-3}$	$3.36 \times 10^{-3}$		$3.40 \times 10^{-3}$
22. $4.35 \times 10^{-1}$	$4.83 \times 10^{-1}$		$4.87 \times 10^{-1}$
23. $1.82 \times 10^6$	$1.80 \times 10^6$		$1.84 \times 10^6$
24. $2.96 \times 10^{-7}$	$2.94 \times 10^{-7}$		$2.98 \times 10^{-7}$
25. $1.76 \times 10^1$	$1.74 \times 10^1$		$1.78 \times 10^1$
26. $2.73 \times 10^{-5}$	$2.71 \times 10^{-5}$		$2.75 \times 10^{-5}$
27. $3.87 \times 10^2$	$3.85 \times 10^2$		$3.89 \times 10^2$
28. 2.61	2.59		2.63
29. 5.58	5.56		5.60
30. 2.70	2.68		2.72
31. $7.24 \times 10^{-3}$	$7.22 \times 10^{-3}$		$7.26 \times 10^{-3}$
32. $5.94 \times 10^{-7}$	$5.92 \times 10^{-7}$		$5.96 \times 10^{-7}$
33. $7.84 \times 10^1$			
34. $1.47 \times 10^1$			
35. $3.47 \times 10^1$			
36. $2.10 \times 10^2$			
37. $2.37 \times 10^{-5}$			
38. $1.96 \times 10^2$			
39. $4.84 \times 10^{-4}$			

## S-33 Continued

40.	$1.10 \times 10^2$	$1.08 \times 10^2$	$1.12 \times 10^2$
41.	$6.31 \times 10^{-1}$	$6.29 \times 10^{-1}$	$6.33 \times 10^{-1}$
42.	$3.10 \times 10^5$	$3.08 \times 10^5$	$3.12 \times 10^5$
43.	$4.83 \times 10^{-4}$	$4.81 \times 10^{-4}$	$4.85 \times 10^{-4}$
44.	$3.40 \times 10^{-7}$	$3.38 \times 10^{-7}$	$3.42 \times 10^{-7}$
45.	$5.69 \times 10^{-7}$	$5.67 \times 10^{-7}$	$5.71 \times 10^{-7}$
46.	7.29	7.27	7.31
47.	$6.52 \times 10^1$	$6.50 \times 10^1$	$6.54 \times 10^1$
48.	$2.15 \times 10^2$	$2.13 \times 10^2$	$2.17 \times 10^2$
49.	$1.06 \times 10^{-4}$	$1.04 \times 10^{-4}$	$1.08 \times 10^{-4}$
50.	$8.56 \times 10^2$	$8.54 \times 10^2$	$8.58 \times 10^2$
51.	$1.02 \times 10^{-4}$	$1.00 \times 10^{-4}$	$1.04 \times 10^{-4}$
52.	$2.94 \times 10^6$	$2.92 \times 10^6$	$2.96 \times 10^6$
53.	$3.03 \times 10^{-3}$	$3.01 \times 10^{-3}$	$3.05 \times 10^{-3}$
54.	$4.78 \times 10^{-1}$	$4.76 \times 10^{-1}$	$4.80 \times 10^{-1}$
55.	$7.23 \times 10^{-4}$	$7.21 \times 10^{-4}$	$7.25 \times 10^{-4}$
56.	$4.49 \times 10^{-1}$	$4.47 \times 10^{-1}$	$4.51 \times 10^{-1}$
57.	2.39	2.37	2.41
58.	$3.99 \times 10^{-4}$	$3.97 \times 10^{-4}$	$4.01 \times 10^{-4}$
59.	$1.41 \times 10^{-3}$	$1.39 \times 10^{-3}$	$1.43 \times 10^{-3}$
60.	$7.42 \times 10^1$	$7.40 \times 10^1$	$7.44 \times 10^1$
61.	$2.50 \times 10^{-1}$	$2.48 \times 10^{-1}$	$2.52 \times 10^{-1}$
62.	$1.66 \times 10^1$	$1.64 \times 10^1$	$1.68 \times 10^1$
63.	$1.22 \times 10^5$	$1.20 \times 10^5$	$1.24 \times 10^5$
64.	$2.78 \times 10^{-6}$	$2.76 \times 10^{-6}$	$2.80 \times 10^{-6}$
65.	$4.15 \times 10^{-3}$	$4.13 \times 10^{-3}$	$4.17 \times 10^{-3}$
66.	5.09	5.07	5.11
67.	$1.28 \times 10^2$	$1.26 \times 10^2$	$1.30 \times 10^2$
68.	$4.33 \times 10^{-1}$	$4.31 \times 10^{-1}$	$4.35 \times 10^{-1}$
69.	$3.35 \times 10^{-6}$	$3.33 \times 10^{-6}$	$3.37 \times 10^{-6}$
70.	$8.44 \times 10^{-6}$	$8.42 \times 10^{-6}$	$8.46 \times 10^{-6}$
71.	$2.64 \times 10^{-3}$	$2.62 \times 10^{-3}$	$2.66 \times 10^{-3}$
72.	$6.54 \times 10^3$		
73.	$6.75 \times 10^{-7}$		
74.	$3.31 \times 10^{-11}$		
75.	$5.66 \times 10^7$		