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

THE UNIVERSITY INTERSCHOLASTIC LEAGUE

Slide Rule Contest

Number S 14

(Special—Not for official contests)

Conference:

Contestant's Serial Number:

Date of Contest:

Location of Contest:

Contestant's Net Score:.....

1. $4.08 \times 2.16 \times 0.738$ ----- equals _____
2. $20.6 \times 0.455 \times 0.863$ ----- equals _____
3. $3.52 \times 0.00837 \times 6.17$ ----- equals _____
4. $4830 \times 0.263 \times 0.0546$ ----- equals _____
5. $\frac{3.92 \times 0.176}{0.436}$ ----- equals _____
6. $\frac{0.725}{1.63 \times 0.275}$ ----- equals _____
7. $\frac{3.89 \times 2.64}{0.373}$ ----- equals _____
8. $\frac{8.44 \times 0.00362}{1.81 \times 0.514}$ ----- equals _____
9. $\frac{3.79}{0.212 \times 4.38 \times 1.66}$ ----- equals _____
10. $\frac{15.4 \times 0.927 \times 1.04}{0.728}$ ----- equals _____
11. $\frac{9.15 \times 3.66 \times 0.217}{7040 \times 36.7}$ ----- equals _____
12. $\frac{19.2 \times 0.0482 \times 0.00386}{2.73 \times 4.92 \times 0.115 \times 1.83}$ ----- equals _____
13. $\frac{33.8 \times 2.16 \times 0.418 \times 9.15}{0.0000226 \times 3780 \times 646}$ ----- equals _____
14. $\frac{77.5 \times 62.8 \times 0.131 \times 4.92}{1.41 \times 73.6 \times 924 \times 0.836}$ ----- equals _____

15. $\frac{3.64 \times \sqrt{5.27} \times 0.0334}{21.7 \times 842 \times 0.00646}$ ----- equals _____
16. $\frac{\sqrt{27.3} \times 0.662 \times 92.7}{348 \times 0.116 \times \sqrt{0.272}}$ ----- equals _____
17. $\frac{(4.17)^2 \times 2.19 \times 4.06}{30.2 \times \sqrt{64.7} \times 0.0105}$ ----- equals _____
18. $14.4 \times \sqrt{0.00267} \times 5280 \times 0.116$ ----- equals _____
19. $\frac{0.223 \times \sqrt{4620} \times 0.0395}{(0.0462)^2 \times 32.9 \times 0.00202}$ ----- equals _____
20. $(3.29)^2 \times \sqrt{0.0636} \times 29.3 \times 707$ ----- equals _____
21. $\frac{3290 \times (0.00462)^2 \times 767}{\sqrt{2.16} \times 5.92 \times 30.9 \times 16.7}$ ----- equals _____
22. $\frac{(917,000)^2 \times 0,000396 \times 0.00171}{0.837 \times \sqrt{266} \times 14.7 \times 1.73}$ ----- equals _____
23. $\sqrt{0.000764} \times 31.2 \times (1.99)^2 \times 5.09$ ----- equals _____
24. $\frac{6.44 \times (2.92 \times 0.173)^2 \times 0.0694}{2.81 \times 3.75 \times 4.08 \times 13,200}$ ----- equals _____
25. $\frac{0.266 \times (3.94)^3 \times 0.00796}{14.5 \times \sqrt{3.78} \times 0.226}$ ----- equals _____
26. $\frac{(5.27 \times 8.37 \times 0.675)^2}{(14.9)^3 \times 0.00825 \times 9.62}$ ----- equals _____
27. $\frac{0.0376 \times \sqrt{14.5} \times 1260}{37.4 \times (0.263 \times 482)^3}$ ----- equals _____

28. $\frac{625,000 \times (0.173)^2 \times 3.68}{\sqrt[3]{25.4 \times 726 \times 0.882}}$ ----- equals _____
29. $\sqrt{\frac{8.05 \times 3.62}{0.859 \times 0.367}} \times \left[\frac{2.75}{13.7}\right]^2$ ----- equals _____
30. $\sqrt[3]{0.00424 \times 28.2} \times \sqrt{\frac{0.382}{0.0506}}$ ----- equals _____
31. $\frac{4.29 \times 0.117}{\sqrt{6.45 \times 37.5}} \times \left[\frac{2.66 \times 3.07}{4.15 \times 6.39}\right]^2$ ----- equals _____
32. $\frac{(6.72)^2 \times 0.454 \times \sqrt[3]{3.21 \times 8.43}}{0.221 \times \sqrt{5.43 \times 16.7 \times 212}}$ ----- equals _____
33. $(7.62 \times 0.371)^3 \times \sqrt[3]{\frac{215 \times 361}{0.427 \times 5320}}$ ----- equals _____
34. $\left[\frac{56.8 \times 0.293}{15.7 \times 31.4}\right]^3 \times \frac{0.0000426}{(0.0191 \times 2.79)^2}$ ----- equals _____
35. $\frac{0.792 \times 16.4}{\sqrt{3.74 \times 8.05}} \times \left[\frac{3.62 \times 5.04}{3.96 \times 7.41}\right]^2$ ----- equals _____
36. $\frac{\pi \times 7.61 \times \sqrt[3]{0.000372 \times 6.44}}{19.1 \times 0.0376 \times (0.192 \times 0.877)^2}$ ----- equals _____
37. $\sqrt{\frac{0.879 \times \pi}{0.466 \times 0.529}} \times \frac{(3.79 \times 0.822)^3}{527 \times 0.119}$ ----- equals _____
38. $\frac{(3.25)^3 \times 0.00000278 \times 0.119 \times 6.34}{(0.0283 \times 0.174)^2 \times 3.02 \times 0.513}$ ----- equals _____
39. $\frac{72.4 \times 0.881 \times 928 \times 65.5}{0.275 \times \pi^2 \times \sqrt{18,300 \times 0.497}}$ ----- equals _____

$$40. \sqrt{3.29 \times (0.246 \times 0.617)^3} \times (0.808)^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$41. \sqrt{\frac{0.828}{0.0546}} \times \left[\frac{7.92}{8.04}\right]^2 \times \sqrt[3]{\frac{835}{7640}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$42. \frac{(0.0875)^2 \times \pi^3 \times 36,000 \times \sqrt{0.0293}}{5.21 \times 39.2 \times 0.00468 \times 97.2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$43. \frac{\sqrt{\pi} \times 3.69 \times 4.05 \times 72 \times \pi}{0.886 \times 0.738 \times 426 \times (0.945)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$44. \frac{86.2 \times 3.75 \times \sqrt{0.292 \times \pi^3}}{3.82 \times (1.04 \times 0.463 \times 17.2)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$45. \sqrt{\frac{14.7}{0.0386}} \times \left[\frac{0.283}{2070}\right]^2 \times \frac{23 \times 64}{0.317} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$46. \frac{0.00000216 \times \sqrt{\pi}}{(0.0118 \times 0.713)^2} \times \frac{2.16 \times 0.882}{0.34 \times 0.027} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$47. \frac{2640 \times 0.334 \times \sqrt[3]{0.021 \times 0.815}}{(71.5 \times 10.9)^2 \times 0.371 \times 6.03} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$48. \left[\frac{16 \times \pi}{0.0415}\right]^2 \times \frac{92.6 \times 0.308 \times 0.777}{(6.77 \times 13.8 \times 1.25)^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$49. \frac{\pi^2 \times \sqrt{17 \times 1.44}}{16.4 \times 0.0818} \times \left[\frac{0.271 \times 3.66}{14.8 \times 3.07}\right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$50. \frac{\sqrt{16,400 \times 3.02 \times 0.22 \times 3.96}}{(0.423 \times 71.9 \times 6.32 \times 19.1)^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$51. \sqrt{\sqrt{(2.86 \times 0.315)^3 \times 4.23 \times 0.676}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$52. \sqrt{\frac{5,040,000 \times \sqrt{\pi}}{717 \times 61.4 \times 8.25}} \times \sqrt[3]{\frac{0.000072}{1.09 \times 0.363}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$53. \sqrt{\frac{0.278 \times 4.08}{\sqrt{13.6 \times 0.0455}}} \times \left[\frac{\pi^2 \times 0.00498}{0.774 \times 3.65} \right]^2 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$54. \frac{[(3.27 \times 0.0000467)^2 \times 8.26]^2 \times \sqrt[3]{\pi}}{0.0382 \times 1.54 \times 0.0072 \times 0.652} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$55. \left[\frac{0.929}{0.436} \right]^2 \times \sqrt{\sqrt{\frac{0.00378}{24 \times 52.6}}} \times \left[\frac{3960}{0.427} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$56. \frac{\left[\frac{27.8 \times 1.45}{3.86 \times 2.09} \right]^2 \times (\pi^2 \times 1.65)^3}{9.09 \times 16.4 \times 0.0045 \times 3780} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$57. \sqrt[3]{\frac{22.6 \times 3.04}{0.00394 \times 67.6}} \times \left[\frac{\sqrt{2.86 \times 0.0375}}{0.0808 \times 0.792} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$58. \frac{2.15 \times \pi \times 64 \times 3.09 \times 0.774}{\left[\frac{0.527}{0.449} \right]^3 \times 0.0374 \times \sqrt{\frac{16.1}{0.00427}}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$59. \sqrt{\frac{32 \times \pi^3}{0.00000716}} \times \sqrt[3]{\frac{2.61 \times 0.339}{9270 \times 36,400}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$60. \frac{\sqrt[3]{\frac{2.6 \times 3.7}{4.04 \times 0.345}} \times \frac{\sqrt{\pi}}{9.3} \times \left[\frac{71}{89}\right]^2}{(0.0000444 \times 62)^2 \times 8,600,000} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$61. \left[\left[\frac{8.82 \times 9.08}{8.63 \times 14.1}\right]^2\right]^2 \times \left[\frac{\pi \times 0.0226}{4.03 \times 1.72}\right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$62. \frac{5220}{\left[\frac{5.09}{16.6}\right]^2} \times \left[\frac{0.022}{\left[\frac{6.36}{4.25}\right]^3}\right]^2 \times \sqrt{\frac{0.0929}{27 \times 2.34}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$63. \frac{\sqrt{0.227 \times 6.49 \times 3.04 \times 29 \times 16}}{\left[\frac{4.29 \times 0.000378 \times 616 \times \pi}{0.373 \times 2.46 \times 3.61 \times 0.898}\right]^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$64. \sqrt{\frac{14,000 \times 0.927}{0.21 \times \sqrt{36.9 \times 12}}} \times \left[\frac{(2.75 \times 6.16)^2}{\pi \times 0.117}\right]^3 \text{ ---- equals } \underline{\hspace{2cm}}$$

$$65. \frac{\sqrt[3]{\frac{0.000627}{0.222 \times 1.5}} \times \left[0.27 \times \frac{5}{28}\right]^3}{0.00821 \times \left[\frac{3.66}{4.28}\right]^2 \times \frac{862}{429}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$66. \left[\frac{0.884}{\left[\frac{2.75}{8.03}\right]^2}\right]^2 \times \frac{5.72}{\sqrt[3]{\pi}} \times \frac{\sqrt{3.25}}{\frac{0.708}{0.0606}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$67. \frac{\sqrt{\sqrt{2.89 \times 5280 \times 12 \times 4.26}}}{\left[0.29 \times 1.37 \times (4.21 \times 77)^2\right]^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$68. \left[\frac{21.6 \times 0.333}{4.28 \times 1.63} \right]^3 \times \frac{\left[\frac{4.83}{2.21} \right]^2 \times \sqrt{\pi}}{0.297 \times 0.834} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$69. \frac{\sqrt[3]{\frac{1.25 \times 16}{0.000000728}} \times \left[\frac{2.54 \times 24}{37.8 \times 92} \right]^2}{\frac{17}{64} \times \left[\sqrt{0.216 \times 0.309 \times 2.78} \right]^3} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$70. \frac{\sqrt{\frac{3.02 \times 7.66 \times 0.19 \times \pi^3}{0.00282 \times 476 \times 392 \times 876}}}{\left[(2.83 \times 12)^2 \times (2.94 \times 1.6)^3 \right]^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$71. \sqrt{\frac{0.292}{5 \times 0.298}} \times \left[\frac{0.0213}{\left[\frac{3.77}{0.183} \right]^2} \right]^2 \times \left[\frac{2.8}{2.7} \right]^3 \text{ ----- equals } \underline{\hspace{2cm}}$$

$$72. \frac{\left[\left[\frac{0.69}{2.74} \right]^2 \times \frac{3.25}{6.04} \right]^2}{\sqrt[3]{\frac{0.00000039}{1.05 \times 0.673}}} \times \frac{\sqrt[3]{\pi} \times \frac{25}{32}}{29.6 \times 707} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$73. \frac{(3.82 \times 0.004 \times 308 \times 1.45)^2}{\left[\frac{0.228}{1.46} \right]^3 \times \sqrt{\frac{7.7}{3.05} \times 0.00816}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$74. \frac{\left[\frac{\left[\frac{2.78}{3.42} \right]^2}{16.2} \right]^3}{4.19} \times \frac{\frac{3.74 \times 8.62}{94.1 \times 0.332}}{\frac{978 \times 862}{36,200,000}} \text{ ----- equals } \underline{\hspace{2cm}}$$

$$75. \frac{\frac{\sqrt{\pi}}{\pi} \times \sqrt[3]{\frac{378 \times 442}{0.672 \times 7.29} \times 0.000221}}{\left[(3.62 \times 0.494)^2 \times (1.76 \times 3.8)^3 \right]^2} \text{ ----- equals } \underline{\hspace{2cm}}$$

1.	6.50	(6.48	to	6.52)
2.	8.09	(8.07		8.11)
3.	1.82×10^{-1}	$(1.80 \times 10^{-1}$		$1.84 \times 10^{-1})$
4.	6.94×10^1	$(6.92 \times 10^1$		$6.96 \times 10^1)$
5.	1.58	(1.56		1.60)
6.	1.62	(1.60		1.64)
7.	2.75×10^1	$(2.73 \times 10^1$		$2.77 \times 10^1)$
8.	3.28×10^{-2}	$(3.26 \times 10^{-2}$		$3.30 \times 10^{-2})$
9.	2.46	(2.44		2.48)
10.	2.04×10^1	$(2.02 \times 10^1$		$2.06 \times 10^1)$
11.	2.81×10^{-5}	$(2.79 \times 10^{-5}$		$2.83 \times 10^{-5})$
12.	1.26×10^{-3}	$(1.24 \times 10^{-3}$		$1.28 \times 10^{-3})$
13.	5.06	(5.04		5.08)
14.	3.91×10^{-2}	$(3.89 \times 10^{-2}$		$3.93 \times 10^{-2})$
15.	2.36×10^{-3}	$(2.34 \times 10^{-3}$		$2.38 \times 10^{-3})$
16.	1.52×10^1	$(1.50 \times 10^1$		$1.54 \times 10^1)$
17.	6.06×10^1	$(6.04 \times 10^1$		$6.08 \times 10^1)$
18.	4.56×10^2	$(4.54 \times 10^2$		$4.58 \times 10^2)$
19.	4.22×10^3	$(4.20 \times 10^3$		$4.24 \times 10^3)$
20.	5.65×10^4	$(5.63 \times 10^4$		$5.67 \times 10^4)$
21.	1.20×10^{-2}	$(1.18 \times 10^{-2}$		$1.22 \times 10^{-2})$
22.	1.64×10^3	$(1.62 \times 10^3$		$1.66 \times 10^3)$
23.	1.74×10^1	$(1.72 \times 10^1$		$1.76 \times 10^1)$
24.	2.01×10^{-7}	$(1.99 \times 10^{-7}$		$2.03 \times 10^{-7})$
25.	9.66×10^{-3}	$(9.64 \times 10^{-3}$		$9.68 \times 10^{-3})$
26.	3.38	(3.36		3.40)
27.	2.37×10^{-6}	$(2.35 \times 10^{-6}$		$2.39 \times 10^{-6})$
28.	3.66×10^1	$(3.64 \times 10^1$		$3.68 \times 10^1)$
29.	3.87×10^{-1}	$(3.85 \times 10^{-1}$		$3.89 \times 10^{-1})$
30.	1.35	(1.33		1.37)
31.	3.06×10^{-3}	$(3.04 \times 10^{-3}$		$3.08 \times 10^{-3})$
32.	1.38×10^{-1}	$(1.36 \times 10^{-1}$		$1.40 \times 10^{-1})$
33.	7.33×10^1	$(7.31 \times 10^1$		$7.35 \times 10^1)$
34.	5.77×10^{-7}	$(5.75 \times 10^{-7}$		$5.79 \times 10^{-7})$
35.	9.15×10^{-1}	$(9.13 \times 10^{-1}$		$9.17 \times 10^{-1})$
36.	1.57×10^2	$(1.55 \times 10^2$		$1.59 \times 10^2)$
37.	1.61	(1.59		1.63)
38.	1.92	(1.90		1.94)
39.	1.50×10^4	$(1.48 \times 10^4$		$1.52 \times 10^4)$
40.	7.00×10^{-2}	$(6.98 \times 10^{-2}$		$7.02 \times 10^{-2})$
41.	1.81	(1.79		1.83)
42.	1.57×10^1	$(1.55 \times 10^1$		$1.59 \times 10^1)$
43.	2.55×10^1	$(2.53 \times 10^1$		$2.57 \times 10^1)$
44.	3.71	(3.69		3.73)
45.	1.69×10^{-3}	$(1.67 \times 10^{-3}$		$1.71 \times 10^{-3})$
46.	1.12×10^1	$(1.10 \times 10^1$		$1.14 \times 10^1)$
47.	1.67×10^{-4}	$(1.65 \times 10^{-4}$		$1.69 \times 10^{-4})$
48.	2.04×10^1	$(2.02 \times 10^1$		$2.06 \times 10^1)$
49.	3.79×10^{-4}	$(3.77 \times 10^{-4}$		$3.81 \times 10^{-4})$
50.	1.54×10^{-5}	$(1.52 \times 10^{-5}$		$1.56 \times 10^{-5})$
51.	1.09	(1.07		1.11)
52.	2.81×10^{-1}	$(2.79 \times 10^{-1}$		$2.83 \times 10^{-1})$
53.	3.63×10^{-4}	$(3.61 \times 10^{-4}$		$3.65 \times 10^{-4})$
54.	1.97×10^{-10}	$(1.95 \times 10^{-10}$		$1.99 \times 10^{-10})$
55.	1.51×10^{11}	$(1.49 \times 10^{11}$		$1.53 \times 10^{11})$
56.	4.25×10^1	$(4.23 \times 10^1$		$4.27 \times 10^1)$
57.	8.53×10^2	$(8.51 \times 10^2$		$8.55 \times 10^2)$
58.	2.78×10^2	$(2.76 \times 10^2$		$2.80 \times 10^2)$
59.	1.62×10^1	$(1.60 \times 10^1$		$1.64 \times 10^1)$
60.	3.54×10^{-3}	$(3.52 \times 10^{-3}$		$3.56 \times 10^{-3})$
61.	2.02×10^{-7}	$(2.00 \times 10^{-7}$		$2.04 \times 10^{-7})$
62.	9.17×10^{-2}	$(9.15 \times 10^{-2}$		$9.19 \times 10^{-2})$
63.	4.10×10^1	$(4.08 \times 10^1$		$4.12 \times 10^1)$
64.	2.58×10^{10}	$(2.56 \times 10^{10}$		$2.60 \times 10^{10})$
65.	1.15×10^{-3}	$(1.13 \times 10^{-3}$		$1.17 \times 10^{-3})$
66.	3.42×10^1	$(3.40 \times 10^1$		$3.44 \times 10^1)$
67.	2.45×10^{-8}	$(2.43 \times 10^{-8}$		$2.47 \times 10^{-8})$
68.	3.75×10^1	$(3.73 \times 10^1$		$3.77 \times 10^1)$
69.	9.42×10^{-1}	$(9.40 \times 10^{-1}$		$9.44 \times 10^{-1})$
70.	1.19×10^{-12}	$(1.17 \times 10^{-12}$		$1.21 \times 10^{-12})$
71.	1.82×10^{-8}	$(1.80 \times 10^{-8}$		$1.84 \times 10^{-8})$
72.	7.76×10^{-6}	$(7.74 \times 10^{-6}$		$7.78 \times 10^{-6})$
73.	8.52×10^4	$(8.50 \times 10^4$		$8.54 \times 10^4)$
74.	2.21×10^{-1}	$(2.19 \times 10^{-1}$		$2.23 \times 10^{-1})$
75.	4.42×10^{-9}	$(4.40 \times 10^{-9}$		$4.44 \times 10^{-9})$

UNIVERSITY
 INTERSCHOLASTIC
 LEAGUE --- SLIDE
 RULE ANSWER KEY S-14