

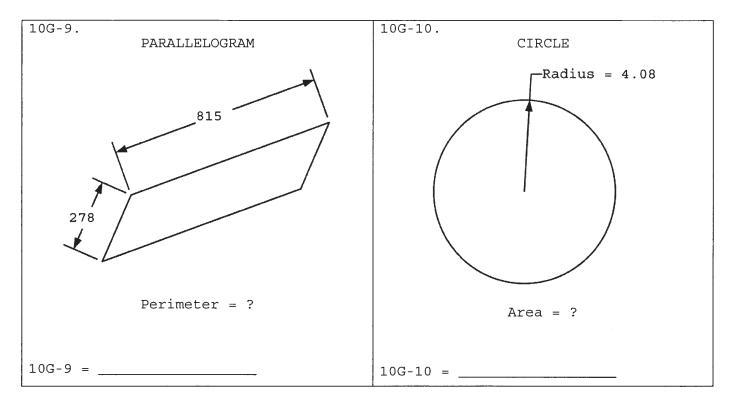
10G-1. 4.5 + 1.87 - 6.22 ----- 1=

10G-3. (-0.953 - 0.25 + 0.55 + 0.245)/(-0.733) ----- 3=

10G-4. $\frac{(6060 - 2550)}{\{(4.59)/(9.76)\}}$ + (7010 - 4720) ----- 4=________

10G-6. Two consecutive integers sum to 145. What is their product? ----- 6= integer

10G-7. How many seconds are in a week? ----- 7=

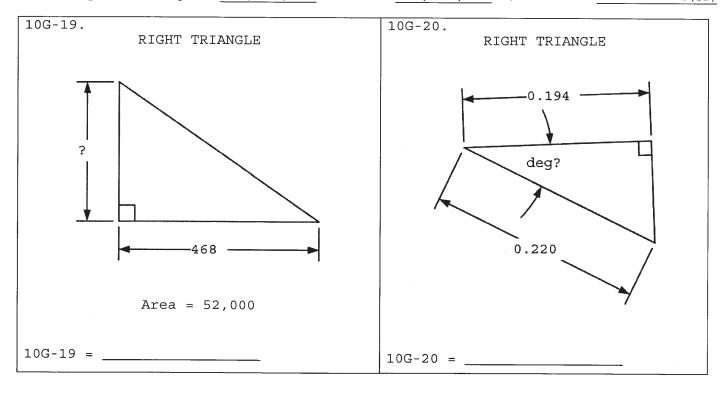


10G-15.
$$\frac{1.48 \times 10^5 + 1.73 \times 10^6 - (79600 + 1.99 \times 10^5) (1.84 - \pi)}{(-652) (-0.105) (-0.954) (476 - 1340 + 3120)} ----- 15=$$

10G-16. A snood player shoots one snood per second. If he finishes all 50 levels of the "puzzle" game in 62 min, what is the average number of shots per level? There is an 8 second pause between levels. ----- 16= shots

10G-17. Hutchins Avenue in Ballinger, Texas is 1.75 mi long and 48 ft wide. If the street pavement is 5 in thick, how many "12-yard" capacity truckloads were needed to deliver the pavement? A "yard" is actually a cubic yard. ---- 17=

10G-18. What is the percent difference in two measurements of the speed of light, 299,792,458 m/s and 299,710,000 m/s? --- 18= %(SD)



10G-21.
$$\left[\frac{(0.914)(0.772)}{\pi} + 0.176\right]^2 + \sqrt{3.59 \times 10^{-6}}$$
 ----- 21=______

10G-22.
$$\frac{-0.179 + 1/(\pi)}{1/(0.196) + 7.69} + \frac{1}{(-31.3)}$$
 ------ 22=_____

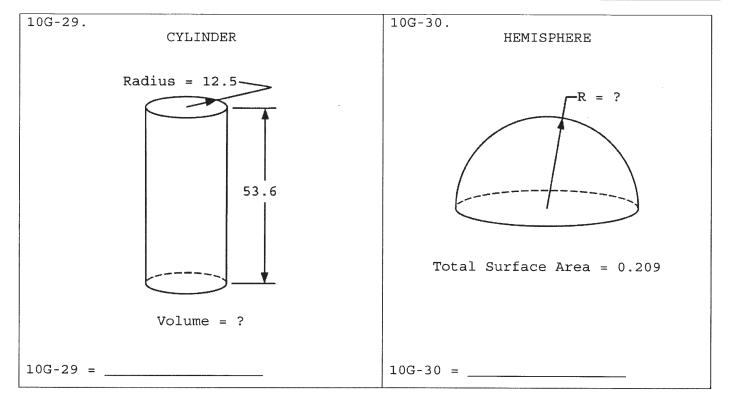
10G-23.
$$(0.0744)(3.63)\sqrt{(-0.363)^2/0.112} + 1/\sqrt{\pi + 3.26}$$
 ----- 23=

$$10G-24. \quad \frac{\sqrt{0.0372 + 0.0215 + (0.00157)/(0.0874)}}{0.0111 + 0.00826} \quad ------ 24=$$

10G-25.
$$[-41.9 + \sqrt{339}]^2 \times [532 + 2630]^2 \times \sqrt{6.74/456}$$
 ----- 25=_____

10G-26. Dana is 12 years old and is one-fifth the age of his grandfather. In how many years will Dana be one-third the age of his grandfather? ------ 26= yr

10G-28. If Humpty Dumpty hit the ground at a velocity of 18 mph, how tall was the wall he fell off? ----- 28= ft



10G-32.
$$\sqrt{\frac{1/(838-415)}{(127)(1.09+0.673)^2}}$$
 + $(-0.0672)^2(0.315)$ ----- 32=

10G-33.
$$\frac{\sqrt{(30.5)/\{(6.2)/\sqrt{68.4}\}}}{5.37 + (0.992)(1.9)} + \{0.669 + 3.52\}^{1/2} ------33=$$

10G-34.
$$\frac{[0.133/(0.981 + 0.589) + 1/(7.43)]^{1/2}}{(2.86 + 7.06)^{2} \times \sqrt{8.9 - (5.98)}}$$
 ----- 34=_____

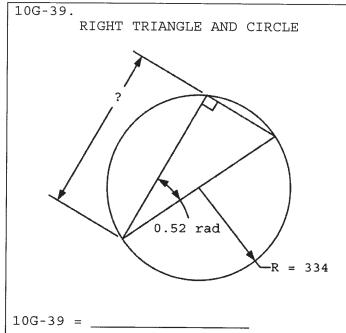
10G-35.
$$\frac{(-0.00796 + 0.0141)^{2} - (0.0532 - 0.0058)^{2}}{\sqrt{(195)(0.614)(223 + 170 - 1100)^{2}}}$$
 ----- 35=____

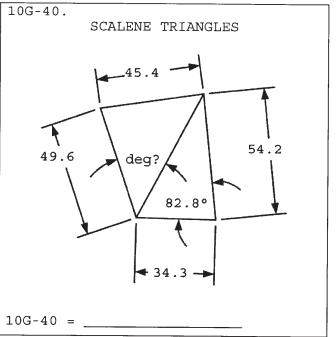
10G-36. What is 349,441⁻⁹⁰²,521_?------ 36=____

10G-37. Andrea walked 0.88 mi one day. The next day she walked 88% of 0.88 mile. The third day, she walked 88% of the preceding day's distance. How far total will she eventually have walked? ----- 37= mi

10G-38. Walking along the outer circular edge of a rotating merry-go-round, Samantha completes one revolution in 11 sec walking one direction and 21 sec walking the other direction.

What is the rotational speed of the merry-go-round? ----- 38= RPM





	$10^{-(5.32 - 6.74)}$		
10G-41.	0.404 + 0.3	 41=	

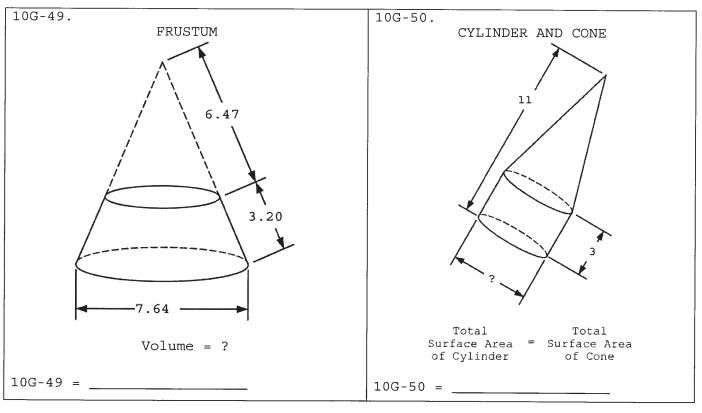
10G-43.
$$(-2.84 \times 10^5) \log \{ (6.31 \times 10^5) (1.74 + 1/0.497) \}$$
 ----- 43=_____

10G-45.(deg)
$$\sin \left[90^{\circ} \times \frac{(1.69 \times 10^{-4})}{(5.66 \times 10^{-4})} \right] + \cos \{ 97^{\circ} - 54.8^{\circ} \}$$
 ----- 45=____

10G-47. On October 22, 2007, there were 19,951,900 Facebook users in the United States. On Jun 18, 2008 the number grew to 26,481,100, and on January 4, 2009 it was 42,089,200. If the growth is exponential, how many days after January 4, 2009 will the number of US Facebook users reach 100 million?

17= day

10G-48. Solve z if $\pi z^7 + 35z^5 = 100 - 285z$. ----- 48=_____



10G-51.
$$10^{+(0.276)} + 10^{-(0.278)} + [10^{(0.893/0.762)} - 10^{(0.147)}]^{1/2}$$
 51=__

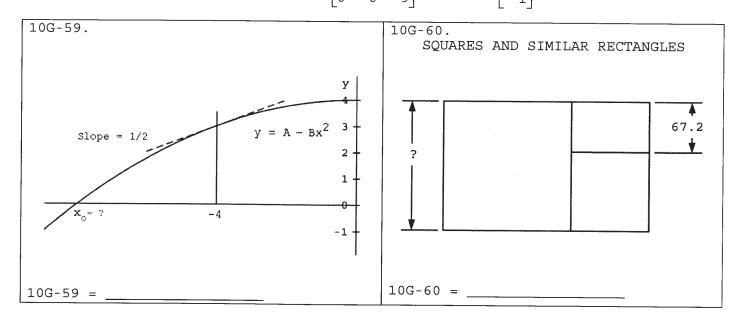
10G-52.
$$\frac{(6.86 - 3.75) e^{(0.17)(2.58)}}{e^{-(6.77 - 3.23)}} ------52=$$

10G-54.
$$\frac{(-0.138 + 0.669)^{-0.512}}{(0.0842)^{-(0.334 + 0.486)}}$$
 ------ 54=______

10G-56. (rad) Solve for b if 0 < b < 0.3 and

$$\int_{0}^{b} \sqrt{3 + \sin(5x)} \cos(5x) dx = 0.3. ----- 56=$$

10G-58. Evaluate S₂ if
$$\mathbf{S} = 3\mathbf{RQ}$$
, $\mathbf{R} = \begin{bmatrix} 9 & 4 & 6 \\ 4 & -12 & 8 \\ 6 & 8 & 9 \end{bmatrix}$ and $\mathbf{Q} = \begin{bmatrix} 8 \\ -3 \\ -1 \end{bmatrix}$. 58=



10G-62. (rad)
$$\frac{\sin(0.0899)}{\cos(0.0899)}\sqrt{1 - \{\sin(0.971 \times 8.19)\}^2}$$
 ----- 62=

10G-63. (rad)
$$\frac{1}{(470)(0.111)}$$
 Ln $\{(0.327) + (-0.277)\sin(3.78)\}$ ----- 63=____

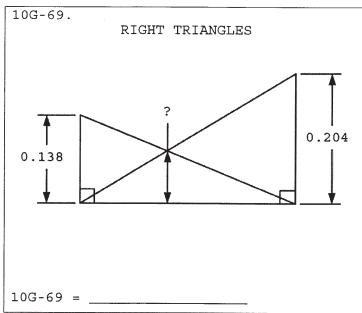
10G-64.
$$-\frac{1}{(8.6)} + \frac{1}{3(8.6)^3} - \frac{1}{5(8.6)^5} + \frac{1}{7(8.6)^7} - ---- 64=$$

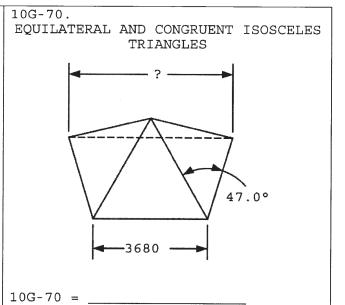
10G-65.
$$\frac{(844)}{(-0.202)} - \frac{(0.75)}{(-0.0332)^2} \ln \left[\frac{(-0.0354)^2 + (6.44 \times 10^{-4})}{(0.998) + \sqrt{4.42}} \right] ----- 65=$$

10G-66. The end of a 20-ft long dog leash slides along a taut 100-ft long clothesline. What is the height of the clothesline if the roaming area is 3200 ft²? ----- 66= <u>ft</u>

10G-67. A 6 ft long piece of dental floss is pulled tight 1 yard above the ground. It is then relaxed by moving one end 5.3 in towards the other end. Assuming the sagged floss forms a circular arc, how far above the ground is the midpoint of the floss? ----- ft

10G-68. The velocity of a car increases with time at v(t) = 20t mph, where t is in seconds from the time the car began moving. How long before the car is 300 ft from where it began? ----- 68= sec





10G-1	$= 0.150$ $= 1.50 \times 10^{-1}$	10G-11 = -68.1 = -6.81x10	$10G-21 = 0.162$ $= 1.62 \times 10^{-1}$
10G-2	$= 0.481$ $= 4.81 \times 10^{-1}$	10G-12 = -0.271 = -2.71x10	
10G-3	$= 0.557$ $= 5.57 \times 10^{-1}$	10G-13 = -5360 = -5.36×10	$10G-23 = 0.688$ $= 6.88 \times 10^{-1}$
10G-4	$= 9750$ $= 9.75 \times 10^{3}$	10G-14 = 54.5 = 5.45×10^{1}	$10G-24 = 14.3$ $= 1.43 \times 10^{1}$
10G-5	$= -2.51$ $= -2.51 \times 10^{0}$	10G-15 = -15.2 = -1.52x10	
10G-6	= 5256 integer	$10G-16 = 66.6$ $= 6.66 \times 10^{1}$	$10G-26 = 12.0$ $= 1.20 \times 10^{1}$
10G-7	$= 605,000$ $= 6.05 \times 10^{5}$	10G-17 = 571 = 5.71x10 ²	10G-27 = \$1.54
10G-8	= \$3,823.53	10G-18 = -0.028	
10G-9	$= 2190$ $= 2.19 \times 10^{3}$	= -2.8x10	$10G-29 = 26,300$ $= 2.63 \times 10^{4}$
10G-10	$= 52.3$ $= 5.23 \times 10^{1}$	$10G-19 = 222$ $= 2.22 \times 10^{2}$	$10G-30 = 0.149$ $= 1.49 \times 10^{-1}$
		10G-20 = 28.1 = 2.81×10^{1}	L

$10G-61 = 3.77$ $= 3.77 \times 10^{0}$	$10G-62 = 0.00887$ $= 8.87 \times 10^{-3}$	10G-63 = -0.0136 = -1.36×10^{-2}	$10G-64 = -0.116$ $= -1.16 \times 10^{-1}$	$10G-65 = 856$ $= 8.56 \times 10^{2}$	$10G-66 = 15.0$ $= 1.50 \times 10^{1}$	$10G-67 = 2.03$ $= 2.03x10^{0}$	$10G-68 = 4.52$ $= 4.52 \times 10^{0}$	$10G-69 = 0.0823$ $= 8.23x10^{-2}$	$10G-70 = 5260$ $= 5.26x10^{3}$
$10G-51 = 6.08$ $= 6.08 \times 10^{0}$	$10G-52 = 166$ $= 1.66 \times 10^{2}$	10G-53 = 0.000435 = 4.35×10^{-4}	$10G-54 = 0.182$ $= 1.82 \times 10^{-1}$	$10G-55 = 5.66$ $= 5.66 \times 10^{0}$	$10G-56 = 0.190$ $= 1.90 \times 10^{-1}$	$10G-57 = 8.00$ $= 8.00 \times 10^{0}$	$10G-58 = 180$ $= 1.80 \times 10^{2}$	$10G-59 = -8.00$ $= -8.00 \times 10^{0}$	$10G-60 = 176$ $= 1.76 \times 10^{2}$
$10G-41 = 37.4$ $= 3.74 \times 10^{1}$	$10G-42 = -16400$ $= -1.64x10^{4}$	$10G-43 = -1.81 \times 10^6$	10G-44 = 0.00945 = $9.45x10^{-3}$	$10G-45 = 1.19$ $= 1.19 \times 10^{0}$	$10G-46 = 13.3$ $= 1.33 \times 10^{1}$	$10G-47 = 542$ $= 5.42x10^{2}$	10G-48 = 0.350 = 3.50×10^{-1}	$10G-49 = 95.1$ $= 9.51 \times 10^{1}$	$10G-50 = 4.67$ $= 4.67 \times 10^{0}$
$10G-31 = 1400$ $= 1.40x10^{3}$	$10G-32 = 0.00387$ $= 3.87 \times 10^{-3}$	$10G-33 = 2.93$ $= 2.93 \times 10^{0}$	$10G-34 = 0.00278$ $= 2.78x10^{-3}$	$10G-35 = -2.86 \times 10^{-7}$	10G-36 = 4.80x10 ⁻⁵ ,003,012	$10G-37 = 7.33$ $= 7.33 \times 10^{0}$	$10G-38 = 4.16$ $= 4.16 \times 10^{0}$	$10G-39 = 580$ $= 5.80 \times 10^{2}$	$10G-40 = 47.5$ $= 4.75 \times 10^{1}$