

- 1: $894 + 585 + 855$ ----- 1=_____
- 2: $646 + 949 - 131 - 319$ ----- 2=_____
- 3: $-137 + 204 - 232 + 428$ ----- 3=_____
- 4: $-46.8 - 48.3 - 43.3 + 6.28$ ----- 4=_____
- 5: $-1.46 + 7.66 + 30.1 - 74.8$ ----- 5=_____
- 6: $0.84 + \pi - 8.83 + 0.025 + 0.0318$ ----- 6=_____
- 7: $983 - 55.7 - 657 - 24.2 - 521$ ----- 7=_____
- 8: $-960 - 240 - 652 + 609 + 128$ ----- 8=_____
- 9: $7.56 \times 8.87 \times 48.6$ ----- 9=_____
- 10: $9.15 \times 2.59 \times 9.5 \times 64.6$ ----- 10=_____
- 11: What is the product of the square root of 2 and π^2 ? ----- 11=_____
- 12: Bobby has \$19.35 all in coins. Two of the coins are quarters and the rest are nickels. How many nickels does he have? ----- 12=_____ (integer)
- 13: Lisa worked from 5:42pm to 10:32pm one night waiting tables. She earns \$8.95 per hour. How much did she make that night (not counting tips)? ----- 13=\$ _____

14: $0.549 - [0.938 / 0.0517 - 0.354]$ ----- 14=_____

15: $2830 - [64600 + 1080 / 5.98]$ ----- 15=_____

16: $1070 \times 485 / 926$ ----- 16=_____

17: $\left[\frac{9250}{8870}\right][8200 - 88900 + 6260]$ ----- 17=_____

18: $\left[\frac{555}{606}\right][936 + 187 + 879 + 394]$ ----- 18=_____

19: $\left[\frac{-79 / 83.8}{-248 + 71.9}\right]\{218 + 79.9 + 5760\}$ ----- 19=_____

20: $(8.44 \times 10^6 + 5.49 \times 10^6) / 27900$ ----- 20=_____

21: $\left[\frac{(27900)(1550)}{(1680)(4200)} + 2.51\right](9.84 - 5.05)$ ----- 21=_____

22: $\left[\frac{(9660 - 160)(21 - 8630)}{6.81 \times 10^5}\right](0.0088 + 0.00171)$ ----- 22=_____

23: $\frac{(-3910 - 71200) - (-5670 + 15300)}{(-\pi / 0.0432)} - \frac{91000}{595 - 651}$ ----- 23=_____

24: The vacation costs for a family of four include airfare at \$347.56 per person, hotel at \$187.00 per day, resort tickets at \$84.00 per person, and food at \$20.00 per person per day. How much will the trip cost if they were on vacation for 5 days? ---- 24=\$_____

25: The amount of kinetic energy of an object is given by multiplying one-half times its mass times the square of its velocity. Find the mass of an object with 70 joules of kinetic energy and a velocity of 0.3 m/s. [1 joule = 1 kg · (m/s)²] ----- 25=_____ kg

26: One train left the station heading due west at 40 mph. A second train left the station 2 hours later heading east at 50 mph. How long after the second train left until both trains are the same distance from the station? ----- 26=_____ hr

27: $\frac{4.91 \times 10^{-9}}{1.17 \times 10^{-8}} - \frac{8.61 \times 10^{-8}}{4.33 \times 10^{-9}} + 3.36$ ----- 27=_____

28: $[-0.0683 + (404)(0.625)(0.025)] - [0.0937 - 0.00904]$ ----- 28=_____

29: $(0.274)(0.0894)(0.219)(0.0471 - 0.72)(0.0049 - 0.00651)$ ----- 29=_____

30: $\frac{1/20700}{1/55400} + \frac{1/663000}{1/60500}$ ----- 30=_____

31: $[7.01 \times 10^8 + 1.07 \times 10^9] \left(\frac{1}{4.96 \times 10^8} \right)$ ----- 31=_____

32: $\left[\frac{(0.417) - (1/9.8)}{(1/9.89) - 90.7} \right] (0.766)$ ----- 32=_____

33: $1/(134 - 245 - 69.9) - 1/(2.3 + 0.722)$ ----- 33=_____

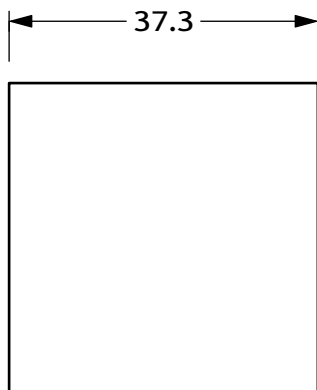
34: $\frac{1}{3.3} + \frac{1}{0.0136} - \frac{1}{5.8 - 6.22}$ ----- 34=_____

35: Enrollment at a fitness center jumped from 560 to 812 in one year. What is the percent increase in enrollment? ----- 35=_____ %

36: A water bottle is a right circular cylinder with radius 3 inches and height 9 inches. How many fluid ounces are in the bottle when it is 75% full?

[1 in³ = 0.554 fluid ounces] ----- 36=_____ fl oz

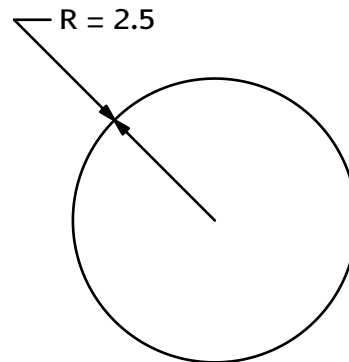
37. SQUARE



Perimeter = ?

37. _____

38. CIRCLE



Area = ?

38. _____

39: $(-0.0426)^2 - (0.975)^2 - (-0.0355 + 0.469)^2$ ----- 39=_____

40: $(330 + 18800 + 629)^2 / (61100 - 443 - 88600)^2$ ----- 40=_____

41: $\sqrt{\frac{64500 - 3380}{867 + 48400}}$ ----- 41=_____

42: $\sqrt{0.0093} + \sqrt{0.673 - 0.00146} - \sqrt{0.0897 + 0.423}$ ----- 42=_____

43: $(7.89)\sqrt{33.4 + 85.9} + \sqrt{0.476 + 0.393}$ ----- 43=_____

44: $\sqrt{\frac{(2740)(76900)(990000)}{(95900)(365000)}} + \sqrt{\frac{1}{0.799}}$ ----- 44=_____

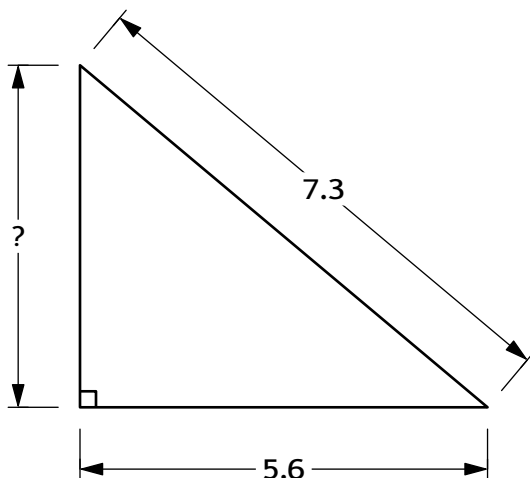
45: $\frac{(9.14 \times 10^4 + 2.49 \times 10^5)^{1/2}}{4.6 \times 10^5} + (0.767)(86.7)$ ----- 45=_____

46: $1/\sqrt{15.6 + 295} + 1/\sqrt{4.32 + 9.89}$ ----- 46=_____

47: An architect designed a skyscraper to be 856 ft tall. The base of the skyscraper will be in the shape of a rectangle with length twice the width. The actual base perimeter of the building will be 540 feet, but the model showing the design has a base perimeter of 30 inches. How tall is the model? ----- 47=_____ ft

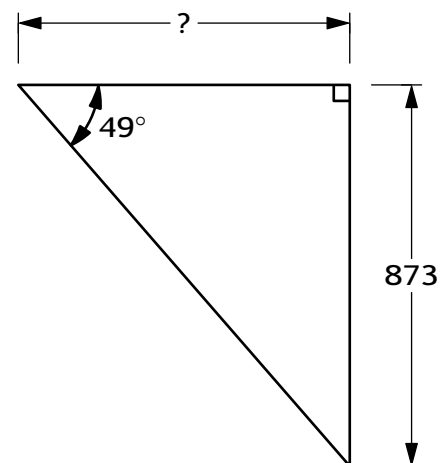
48: An isosceles triangle has a perimeter of 72 inches. The ratio of the sides are 1:1:1.35. What is its area? ----- 48=_____ in²

49. RIGHT TRIANGLE



49. _____

50. RIGHT TRIANGLE



50. _____

51: $\frac{\sqrt{318} + \sqrt{20000}}{(1.81 - 6.28 - 9.39)^2}$ ----- 51=_____

52: $\frac{(3.84 - \pi)^3}{\sqrt{5.55}} - \frac{1}{1/2.69}$ ----- 52=_____

53: $(5.76)^2 \sqrt{388 + 757} + (5.49)^3 \sqrt{7.73}$ ----- 53=_____

54: $(-0.0889 + 0.00685 + 0.845)^2 (0.0986 + 0.801 - 0.0945)^2$ ----- 54=_____

55: $\sqrt{\frac{(685) + (8380)}{(2090) + (752)}} + \frac{1.41 \times 10^{-7}}{5.17 \times 10^{-9}}$ ----- 55=_____

56: $1/(1.08)^2 - (-9.13 + 0.295)(-0.392 - 5.02 \times 10^{-1})$ ----- 56=_____

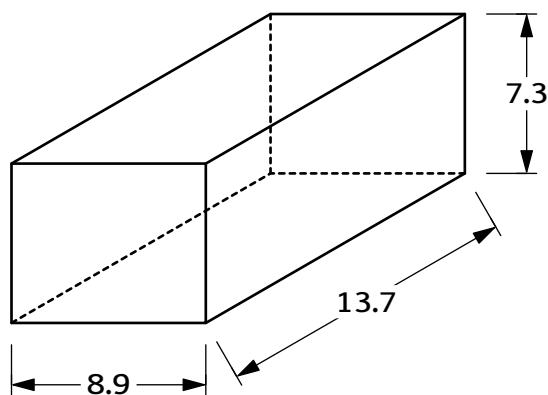
57: $\left[\frac{2400 / 1960}{44500 / 13100} \right]^2 + \frac{1/(960 + 691)}{1/(676 - 147)}$ ----- 57=_____

58: $3\sqrt{\frac{6.45 - 0.364 - 0.0904}{0.0531}} - (7.84)(0.187)$ ----- 58=_____

59: A bus gets 18.6 miles per gallon of gasoline. Its daily route consists of a 12.3-mile loop that is covered 6 times. If gasoline costs \$2.14 per gallon, how much does gasoline cost for this bus for 5 days? ----- 59=\$_____

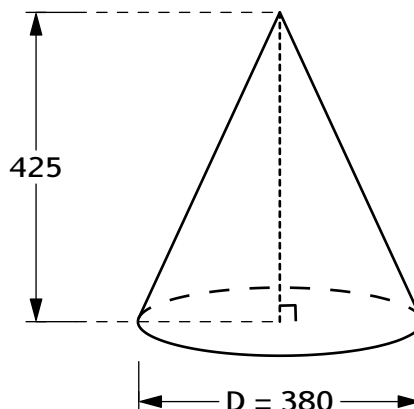
60: What is the smallest positive integer N so that $\left(\frac{1}{5}\right)^N$ is smaller than 3×10^{-13} ? ----- 60=_____ (integer)

61. RECTANGULAR PRISM



Volume = ?

62. CONE



Volume = ?

61. _____

62. _____

63: $4\sqrt[4]{\frac{0.811 - 0.421}{0.00428}} - (0.982)^{0.603}$ ----- 63=_____

64: (deg) $\cos(287^\circ + 48^\circ)$ ----- 64=_____

65: (deg) $\cos(339^\circ) - \sin(122^\circ) + \frac{5730}{1520}$ ----- 65=_____

66: (rad) $(0.608)\tan(1.87) + (0.136)\tan(0.541)$ ----- 66=_____

67: (rad) $\frac{\sin(0.119) + \sin(0.38)}{(5.88)\sin(0.525)}$ ----- 67=_____

68: $(1.93 + 5.64 + 83.6)^{0.342 + 0.786} + 9.4 \times 10^3$ ----- 68=_____

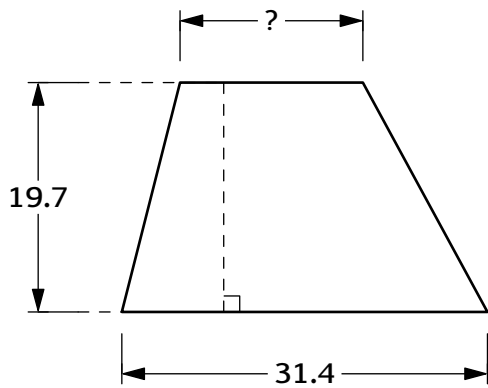
69: $(7.68 \times 10^{-5} + 9.7 \times 10^{-4})^4 (8.54 \times 10^{12})$ ----- 69=_____

70: (rad) $\left[\frac{\cos(5.85) + \sin(3.69)}{\cos(5.83) - \tan(0.975)} \right] [\tan(74.6)]$ ----- 70=_____

71: Lori can wash the dishes in 26 minutes. Shannon can wash the dishes in 22 minutes. How long will it take them working together to wash the dishes? ----- 71=_____ minutes

72: The revenue (in dollars) from selling x coffees at a local coffee shop is given by $R(x) = 6x - 0.04x^2$. How many coffees need to be sold to maximize revenue? --- 72=_____ (integer)

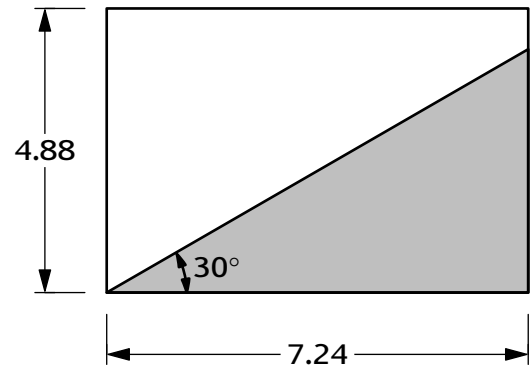
73. TRAPEZOID



Area = 464

73. _____

74. RECTANGLE



$$\frac{\text{Shaded Area}}{\text{Rectangle Area}} = ?$$

74. _____

75: $\ln \left[\frac{8910 + 2250 + 86600}{(1650)(8430)} \right]$ ----- 75=_____

76: $\frac{\log [4.43 \times 10^8 - 4.25 \times 10^8]}{-87900 + (2.69)(10200)}$ ----- 76=_____

77: $e^{0.282}(1.34)^{0.85}(2380 + 46700 - \ln(5680))^{0.673}$ ----- 77=_____

78: $\ln \left[\left(\frac{8.69 \times 10^5 + 8.38 \times 10^5}{7.2 \times 10^4} \right)^2 \right]$ ----- 78=_____

79: $(0.699) - \frac{(0.699)^3}{6} + \frac{(0.699)^5}{120} - \frac{(0.699)^7}{5040}$ ----- 79=_____

80: (rad) $\sin(13.7)\cos(13.24) + \cos(13.7)\sin(13.24)$ ----- 80=_____