

**MIDDLE SCHOOL CALCULATOR (NOTE : CALCULATION PROBLEMS
HAVE BEEN CHANGED TO THOSE APPEARING ON CURRENT UIL CALCULATOR
TESTS!**

1. $764 + 421$ ----- 1=_____
2. $2420 + 66 - 421$ ----- 2=_____
3. $2240 - 421 + 111$ ----- 3=_____
4. $4420 - 222 + 210 + 267$ ----- 4=_____
5. $1424 + 770 - 416 + 6260$ ----- 5=_____
6. $2.64 - 0.0210 + 72.2 - 2.11$ ----- 6=_____
7. $- 22.7 + 10.4 - 0.0426 - 0.0772$ ----- 7=_____
8. $0.477 + 1.02 + 20.7 - 46.2 - 46$ ----- 8=_____
9. $24 \times 66 \times 1160$ ----- 9=_____
10. $414 \times 0.000624 \times 2.60 \times 240000$ ----- 10=_____

11. I have thirteen egg cartons which can hold a maximum of a dozen eggs each. Two of the cartons contain four eggs each. The rest of the egg cartons are full. Find the total number of eggs.

11=_____ eggs (INTEGER)

12. Yara bought three notepads at \$2.79 each and five pens at 23¢ each. How much change does Yara receive if she pays with a \$20 bill ?

12= \$ _____

13. During the last six calculator practices, Danny has scored 355, 274, 337, 328, 346, and 344. Find Danny's average on those six tests.

13=_____ (INTEGER)

14. $\frac{0.222 \times 0.161}{0.222}$ ----- 14=_____

15. $(0.762 + 0.412) - (0.642 - 0.120)$ ----- 15=_____

16. $\frac{(7.44 / 2.17)}{(4.04 / 7.74)}$ ----- 16=_____

17. $\frac{(4.67 - 2.07)}{(4.01 + 2.16)}$ ----- 17=_____

18. $\frac{[(17 / 41) + (14 / 46)]}{(2.46 - 2.17)}$ ----- 18=_____

19. $\frac{[(47 / 42) - (17 / 42)]}{(-426 + 610)}$ ----- 19=_____

20. $\frac{4.41}{(2.62 + 6.17)} - \frac{(4.14 + 6.11)}{0.406}$ ----- 20=_____

21. $\frac{[-(0.772 + 0.276)(0.667 - 0.444)]}{(14 / 27)}$ ----- 21=_____

22. $\frac{\pi(0.701 - 0.427)}{(17 / 12)}$ ----- 22=_____

23. $\frac{6\pi}{4} \left[\frac{14}{24} + \frac{16}{26} \right]$ ----- 23=_____

24. My grandmother gave me eight hundred nickels for my birthday. Each day I spend a quarter on milk (five times a week). How many weeks will I be able to buy milk with the money I received from my grandmother ?

24=_____ weeks (INTEGER)

25. Find your score on a calculator test if you attempted all 80 problems if the only wrong answers you get wrong are the word problems.

25=_____ (INTEGER)

26. How many seconds are there in eight hours ?

26=_____ seconds (INTEGER)

27. $60.2 [164 (44.0 - 14.4)(-0.461 - 0.0662)]$ ----- 27= _____

28. $[-26.7 (-720 - 467)] - [0.264 (1000 - 476)]$ ----- 28= _____

29. $\frac{(0.206 + 0.444)(0.221 + 0.217)}{(4.26 \times 10^{-2})}$ ----- 29= _____

30. $\frac{(21 / 27)(1.22)}{(4.17 \times 10^{-2})}$ ----- 30= _____

31. $0.0642 [(4.11 \times 10^{14}) - (2.06 \times 10^{14})]$ ----- 31= _____

32. $(0.00647)(4.46 \times 10^6)(4.44 \times 10^7)$ ----- 32= _____

33. $\frac{1 / 76.0}{1 / 0.247} [426000]$ ----- 33= _____

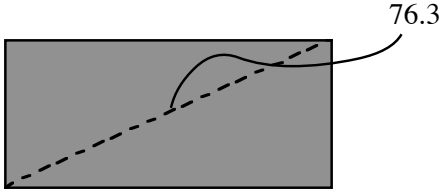
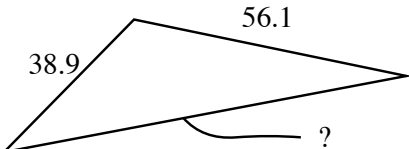
34. $\frac{1}{(6.04 \times 10^4)} [420000 - 712000]$ ----- 34= _____

35. During his birthday, Roel received seventeen roses from his girlfriend. After the first day, he disposed of five of them because they had lost some petals. What percent of the original seventeen roses did he still have after the first day ?

35= _____ %

36. When making a hamburger, Debbie used a square patty instead of a circular one. If the side of the square patty has the same length as the diameter of the circular one, find how much more meat is required for the square patty, if the side of the square patty measures 3.75 inches, and each is .6 inch thick.

36= _____ cu. in.

<p>37. Rectangle</p>  <p style="text-align: center;">Area = ?</p> <p style="text-align: center;">37= _____</p>	<p>38. Scalene Triangle</p>  <p style="text-align: right;">Perimeter = 197.2</p> <p style="text-align: center;">38= _____</p>
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39. $(24 / 42)^2 (426000)$ ----- 39= _____

40. $(0.777 + 0.412)^2 (2.66 - 1.24)^2$ ----- 40= _____

41. $\sqrt{0.706(4.01 + 6.22)}$ ----- 41= _____

42. $(4267)^2 \sqrt{412 - 127}$ ----- 42= _____

43. $\frac{1}{\sqrt{0.676 + 12.2}} + \frac{1}{\sqrt{244}}$ ----- 43= _____

44. $\left[\frac{4440 + (1 / 4220)}{(1 / 4226) + 2140} \right]^2$ ----- 44= _____

45. $\sqrt{-472000(-2.11 \times 10^{-4})}$ ----- 45= _____

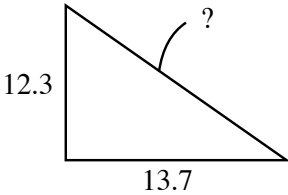
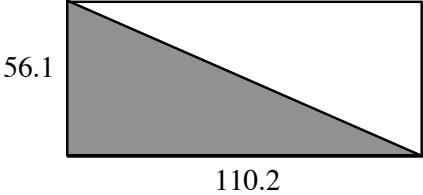
46. $\left[\frac{(17 / 27)(2.24 \times 10^2)(220000 - 246000)}{(2.16 \times 10^4)} \right]^2$ ----- 46= _____

47. Pat can walk at a rate of six feet per second and run at fourteen feet per second. How long will it take him to travel two miles, if he runs three-fourths the distance, rests for one minute, then walks the rest of the way ?

47= _____ minutes

48. Last week the average score on a calculator test was 222. The average this year is 254. Find the percent increase in average score.

48= _____ %

<p>49. Right Triangle</p>  <p style="text-align: center;">49 = _____</p>	<p>50. Rectangle</p>  <p style="text-align: right;">Shaded Area = ?</p> <p style="text-align: center;">50 = _____</p>
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51. $\frac{(42.2 - 61.2 + 22.2)^2}{\sqrt{20.6 + \pi}}$ ----- 51= _____

52. $\frac{\pi^2 \sqrt{6.47 \times 10^{-2}} [647000 + 147000]}{\sqrt{(0.00106)(700000)}}$ ----- 52= _____

53. $\left[\frac{141}{242} + \frac{67}{242} + \frac{26}{242} \right]^2 [0.241 - 0.216]$ ----- 53= _____

54. $\left[\left(4\frac{1}{3}\right) \times \left(2\frac{4}{7}\right) \times \left(6\frac{1}{4}\right) \right]^2$ ----- 54= _____

55. $\left[\frac{\sqrt{\sqrt{406000 \times 142000}}}{[221 + (-277)]} \right]^6 [2.66 - 1.26]$ ----- 55= _____

56. $\left[\frac{1}{1/\sqrt{(421000)^4}} \right]^4$ ----- 56= _____

57. $\sqrt[3]{\frac{(44.6 + 27.1)(44.2 + 60.7)^2}{(1660)(2410200)}}$ ----- 57= _____

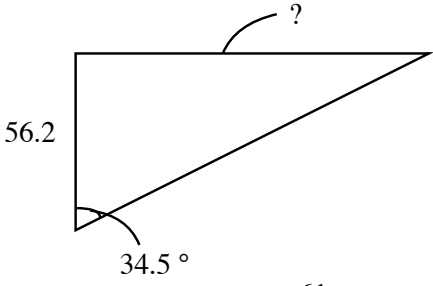
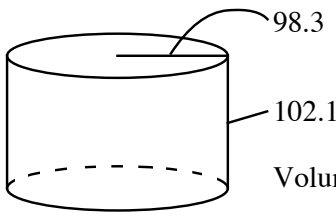
58. $\sqrt[3]{\frac{(6)(1670)(427000)}{(4)(26600)(61200)}} + [\pi(4.46)^2]$ ----- 58= _____

59. How much interest will have to be paid on \$1600.00 borrowed for two years at 8.15% annual interest ?

59= \$ _____

60. How many feet does a car travel in one second if it is being driven at the rate of 55 miles per hour ?

60= _____ feet

<p>61. Right Triangle</p>  <p style="text-align: right;">61 = _____</p>	<p>62. Right Circular Cylinder</p>  <p style="text-align: right;">Volume = ?</p> <p style="text-align: right;">62 = _____</p>
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63. $\frac{2! \times 4!}{6!}$ ----- 63= _____

64. $\frac{(4.47 - 0.776)^{-1}}{(4.04 + 2.16)^{-4}(447 + 260)^0}$ ----- 64= _____

65. $\frac{(0.00420 + 0.00162)^0}{(477 - 216)^{-2}}$ ----- 65= _____

66. (deg) $\frac{\sin(76^\circ)}{42.6}$ ----- 66= _____

67. (deg) $[(27000)\tan(42^\circ)]$ ----- 67= _____

67. (deg) $[711000]\cos(170^\circ - 70^\circ)$ ----- 68= _____

66. (deg) $\frac{\sin(16^\circ)}{\sin(22^\circ)} [161 - 762]$ ----- 69= _____

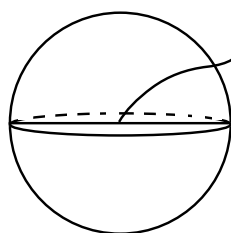
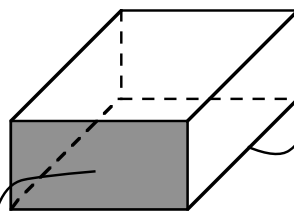
70. $[(2)(2160/\pi)]^{1/2}$ ----- 70= _____

71. A chemist has 3.87 liters of a solution that is 60% acid. How much water should be added to obtain a solution that is 40% acid ?

71= _____ liters

72. Find the sum of the first twenty terms in the following sequence : 7, 13, 19, 25, 31, . . .

72= _____ (INTEGER)

<p>73. Sphere</p>  <p style="margin-left: 150px;">Diameter = 762</p> <p style="margin-left: 150px;">Surface Area = ?</p> <p style="text-align: right;">73 = _____</p>	<p>74. Rectangular Solid</p>  <p style="margin-left: 150px;">13.6</p> <p style="margin-left: 150px;">Volume = ?</p> <p style="margin-left: 50px;">Shaded Area = 67.3</p> <p style="text-align: right;">74 = _____</p>
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75. $[\sqrt{\sqrt{3760000}}]^8$ ----- 75= _____

76. $\frac{(0.670)^4(2.66)^6}{(0.00271 - 0.00247)^6}$ ----- 76= _____

77. $\text{Ln} [- 0.00112 - 0.00264 + 1.62]$ ----- 77= _____

78. $10^{\pi(0.426 + 0.400)}$ ----- 78= _____

79. (deg) $\left[\frac{\sin(62^\circ) \times \cos(24^\circ)}{\tan(46^\circ) \times \cos(72^\circ)} \right] [716 \times 460]^{1/2}$ ----- 79= _____

80. $(e^{0.611})(e^{0.404})(e^{0.120})$ ----- 80= _____