

Worksheet #15 — Basic Calculator Problems

E. White

Evaluate each of the following. Your answer should accurately agree with the given answer.

- | | | |
|---|---|--|
| (1) $(45.5)(23.2)$ | (2) $\frac{-3.9(17.4)}{-4.03}$ | (3) $(-2.3)(0.0023)$ |
| (4) $23.4(3.4 + 8.9)$ | (5) $0.001 - 0.02$ | (6) $-78.9 + \sqrt{45}$ |
| (7) $\sqrt[5]{7}$ | (8) $\left(\frac{1}{4.5}\right)\left(\frac{7.1}{9.12}\right)$ | (9) $\frac{1}{17^3}$ |
| (10) $-5.9^2 + 9.3^2 - 6.23^2$ | (11) $\frac{1}{0.234} - 56.3$ | (12) $\sqrt{35602.3}$ |
| (13) $\sqrt{3 - \sqrt{5}}$ | (14) $(2.3(5.6^2))^3$ | (15) $\frac{23.5}{17.89} + \frac{0.987}{0.1005}$ |
| (16) $(190.5 - 26.9)(89 - 78.02)$ | (17) $\sqrt{23.5}$ | (18) $\sqrt{4 + 13.4^2}$ |
| (19) $11.9^2 8.34^3$ | (20) $23.9 - 17.9(19.2 + 7.5)$ | (21) $\sqrt[5]{9}$ |
| (22) $(2 + \sqrt{4})^5$ | (23) $-17.4(11.9)^3$ | (24) $-0.045 \frac{3}{789.5}$ |
| (25) $\frac{(17.3)(0.0035)(981.1)}{(9812)(0.29)}$ | (26) $3.4\left(123.01 - \frac{17.2}{0.452}\right)$ | (27) $\frac{3 + \sqrt{19}}{\sqrt{19}}$ |
| (28) $(2.3)(19.3) - (0.034)(5.9)$ | (29) $\frac{12.3 - 8.7}{(4.5)(8.3)}$ | (30) $\frac{7.2^2 - 17.9}{23.8}$ |
| (31) $\frac{3.21 - 9.123}{12.01 - 4.6}$ | (32) $0.00891 - \frac{34}{125.5}$ | (33) $\frac{17.89}{14.3} - \frac{93.4}{27.1}$ |
| (34) $\frac{5.2^2 - 11.2}{19.37 - 45.11}$ | (35) $\sqrt{189 - 123}$ | (36) $\frac{23.4}{89.01} + \frac{1}{0.019} - 34.5$ |
| (37) $\sqrt{452} - 78$ | (38) $\frac{17.89 - 93.4}{14.3 - 27.1}$ | (39) $\sqrt{2.5 + 7.2}$ |
| (40) $(4.5 - 9.2)(8.2 - 6.4)$ | (41) -5.6^2 | (42) $7.5^2 - 4.31^2$ |
| (43) $(4.5 - 2.15)^2$ | (44) $(8.9(5.06))^3$ | (45) 3.789^{12} |
| (46) 3.7^{12} | (47) $74.12(-34.1)$ | (48) $\frac{3.4 - \frac{12.01}{0.89}}{13.8}$ |
| (49) $(-3.4)^2$ | (50) $((0.012)(0.03))^7$ | (51) $\frac{7.56 + 9.23}{89.3 - 78.12}$ |
| (52) $(2.78(17.3))^3$ | (53) $\frac{12.87}{(123)(17.4)}$ | (54) $\sqrt{2.5} + \sqrt{7.2}$ |
| (55) $\frac{1}{56.9} + \frac{1}{0.23}$ | (56) $\frac{(1234.78)(0.89)}{(45.7)(5.9)}$ | (57) $\sqrt{12 + \sqrt{5}}$ |

- (58) $\frac{-24.7 + 9.2}{63.5 + 12.8}$
- (61) $8.34(-11.3) - 23.76$
- (64) $\frac{\sqrt{23.5}}{\sqrt{15.2}}$
- (67) $\frac{\sqrt{0.008} - \sqrt{0.11}}{\sqrt{0.23} + \sqrt{0.073}}$
- (70) $\frac{78.6}{4.88} - 17.05$
- (73) $-\frac{1}{11.3^4}$
- (76) $\frac{1}{45.9} - \frac{23.8}{93.1}$
- (79) $23.8 - \sqrt{7.4}\sqrt{3.9}$
- (82) $\frac{\frac{1}{4.2} - \frac{2.5}{8.34}}{\frac{1}{3} - \frac{2.1}{5.2}}$
- (85) $\sqrt{\frac{23.4}{78.3}}$
- (88) $\sqrt{5.2^3}$
- (91) 256.81^{9167}
- (94) $\sqrt{\frac{64.2}{19.2}}$
- (97) $(1 - 23.4)^2(2.4 + 7)^2$
- (100) -117.4^2
- (103) $\sqrt[3]{16.1 - 7.5^3}$
- (106) $\frac{5.4}{-12.4 + \sqrt{82.1}}$
- (109) $9.045^{-\left(\frac{2}{3}\right)}$
- (59) $25(17.3^3)$
- (62) $\sqrt{\frac{1}{4.5} - \frac{1}{8.12}}$
- (65) $-7.8^2 + 3.4^3$
- (68) $\sqrt{\frac{0.82}{9.7}}(0.0045)$
- (71) $\left(1 - \frac{4.5}{7.2}\right)^2$
- (74) $\frac{13.4}{23.7 - 7.34}$
- (77) $23.5^{0.43}$
- (80) $\sqrt[7]{17}$
- (83) $\frac{0.078}{789^2 956.4}$
- (86) 27.8^0
- (89) $\frac{1}{34.2^2} - \frac{1}{86.2}$
- (92) $-\sqrt{0.0108} - 0.0211$
- (95) $\left(\sqrt{18.4}\right)^3$
- (98) $\sqrt{15} - 5\sqrt{3} - \sqrt{17}$
- (101) $(11.403)(0.66)\left(\frac{-67.2}{13.4}\right)$
- (104) $\left(\frac{1}{34.5} - \frac{1}{8.2}\right)\left(\frac{1}{4.3} + \frac{1}{11.8}\right)$
- (107) $\sqrt{\sqrt{56.2} - \sqrt{48.3}}$
- (110) $\sqrt{11.56 - \frac{5.09}{2.7}}$
- (60) $7.2\sqrt[4]{78}$
- (63) $\frac{3.4}{2.98}\left(\frac{0.91}{2.01} + \frac{37.08}{6.16}\right)$
- (66) $\frac{1}{3 - \sqrt{3}}$
- (69) $-0.03\sqrt{5609}$
- (72) $\left(3.4 - \sqrt{5}\right)^3$
- (75) $0.00056(0.0011^{12})$
- (78) $17.3(34.5) - 18.3(-9.2)$
- (81) $\left(\sqrt{11.4} - \sqrt{92.1}\right)^4$
- (84) $-\sqrt{5.4} + \sqrt{1.2}$
- (87) $3.4^2 1.2^3$
- (90) $\sqrt{71.4\sqrt{7.2}}$
- (93) $\frac{1}{\sqrt{2}} - \frac{\sqrt{2}}{2}$
- (96) $(9.1 - 3.7^2)^2\left(\frac{\sqrt{3.6}}{2.1} - \frac{\sqrt{11.9}}{4.5}\right)$
- (99) $5.7(23.5) + 8.2(19.7)$
- (102) $\sqrt{7 + 3.2^2}$
- (105) $5^{\sqrt{2}}$
- (108) $\frac{1}{34.89 - 245.8}$
- (111) $\frac{\sqrt{3.4} - \sqrt{8.1}}{\sqrt{7.7} - 3.1}$

Answers: (1) 1055.6 (2) 16.83870967741935 (3) -0.00529 (4) 287.82 (5) -0.019
(6) -72.1917960675006 (7) 1.47577316159455 (8) 0.173001949317738 (9) 0.000203541624262161
(10) 12.867 (11) -52.02649572649572 (12) 188.6857175305009 (13) 0.874032048897642
(14) 375242.1970411517 (15) 11.13447852965468 (16) 1796.328 (17) 4.84767985741632
(18) 13.54843164355195 (19) 82147.0694234400 (20) -454.03 (21) 1.551845573915359
(22) 1024. (23) -29321.766 (24) -0.0001709943001899936 (25) 0.02087718240859187
(26) 288.853469026548 (27) 1.688247201611685 (28) 44.189 (29) 0.0963855421686747
(30) 1.426050420168067 (31) -0.797975708502024 (32) -0.262006334661354 (33) -2.195445513895698
(34) -0.615384615384615 (35) 8.1240384046359 (36) 18.39447075727742 (37) -56.739708374530
(38) 5.8992187 (39) 3.114482300479487 (40) -8.46 (41) -31.36 (42) 37.673
(43) 5.5225 (44) 91331.7060993039 (45) $8.75578851724578 \times 10^6$ (46) $6.58295200584003 \times 10^6$
(47) -2527.492 (48) -0.731476958150138 (49) 11.56 (50) $7.836416409 \times 10^{-25}$
(51) 1.50178890876565 (52) 111243.0012145839 (53) 0.00601345668629100 (54) 4.26442040308393
(55) 4.36540077939940 (56) 4.07578607721692 (57) 3.773071424913632 (58) -0.2031454783748361
(59) 129442.925 (60) 21.3971606366460 (61) -118.002 (62) 0.3147530982573742
(63) 7.38440847275866 (64) 1.243403647887100 (65) -21.536 (66) 0.788675134594812
(67) -0.3230594949370953 (68) 0.01950416291805471 (69) -2.24679772120233 (70) -0.943442622950822
(71) 0.14062 (72) 1.57682265280834 (73) -0.0000613318727679376 (74) 0.819070904645476
(75) $1.75751989096376 \times 10^{-39}$ (76) -0.233852605369633 (77) 3.886504552673684 (78) 765.21
(79) 18.42784959257468 (80) 1.49891987207156 (81) 1497.260049292755 (82) 0.874521162290946
(83) $1.310089689808391 \times 10^{-10}$ (84) -1.22834489271411 (85) 0.54667227359053 (86) 1.
(87) 19.9757 (88) 11.85782442103103 (89) -0.01074596415372338 (90) 13.84147045339410
(91) Overflow (92) -0.1250230484541326 (93) 0. (94) 1.828592354790974 (95) 78.9272069694601
(96) 2.884681242628210 (97) 44335.513 (98) -8.91037631725462 (99) 295.49 (100) -13782.76
(101) -37.7422280597014 (102) 4.152107898405339 (103) -7.40335251064795 (104) -0.02949838327709252
(105) 9.73851774233542 (106) -1.61720467726934 (107) 0.739490219028557 (108) -0.00474135887345313
(109) 0.2303532191718919 (110) 3.110436434781269 (111) 3.082442688384652