Order of Operations (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2^3 \times (8 + 4 - 10)$

$2 \times (3^3 - 5 + 8)$

$(3 \times 2^2) \div (6 - 4)$

$3^3 \times (6 + 2 - 8)$

$(3^2 - 8 + 2) \times 4$

$(9^2 - 8 + 2) \div 5$

$(3 + 5^2 - 8) \times 4$

$(2^3 + 4) \div (9 - 6)$

$(6 - 2^2 + 5) \times 8$

$(2^3 + 8 - 4) \div 3$

Order of Operations (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2^3 \times (8 + 4 - 10)$
$= 2^3 \times (12 - 10)$
$= 2^3 \times 2$
$= 8 \times 2$
$= 16$

$2 \times (3^3 - 5 + 8)$
$= 2 \times (27 - 5 + 8)$
$= 2 \times (22 + 8)$
$= 2 \times 30$
$= 60$

$(3 \times 2^2) \div (6 - 4)$
$= (3 \times 4) \div (6 - 4)$
$= 12 \div (6 - 4)$
$= 12 \div 2$
$= 6$

$3^3 \times (6 + 2 - 8)$
$= 3^3 \times (8 - 8)$
$= 3^3 \times 0$
$= 27 \times 0$
$= 0$

$(3^2 - 8 + 2) \times 4$
$= (9 - 8 + 2) \times 4$
$= (1 + 2) \times 4$
$= 3 \times 4$
$= 12$

$(9^2 - 8 + 2) \div 5$
$= (81 - 8 + 2) \div 5$
$= (73 + 2) \div 5$
$= 75 \div 5$
$= 15$

$(3 + 5^2 - 8) \times 4$
$= (3 + 25 - 8) \times 4$
$= (28 - 8) \times 4$
$= 20 \times 4$
$= 80$

$(2^3 + 4) \div (9 - 6)$
$= (8 + 4) \div (9 - 6)$
$= 12 \div (9 - 6)$
$= 12 \div 3$
$= 4$

$(6 - 2^2 + 5) \times 8$
$= (6 - 4 + 5) \times 8$
$= (2 + 5) \times 8$
$= 7 \times 8$
$= 56$

$(2^3 + 8 - 4) \div 3$
$= (8 + 8 - 4) \div 3$
$= (16 - 4) \div 3$
$= 12 \div 3$
$= 4$

Order of Operations (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(10 - 7 + 3^2) \times 6$

$5 \div (8 + 2^2 - 7)$

$(6 + 3) \times 8 - 2^2$

$5 \times (9 - 2^2 + 10)$

$(2^2 + 8) \times (9 - 5)$

$(7 - 2^3 \div 4) \times 9$

$5 \times (7 - 3 + 2^2)$

$(7 + 4 - 2^3) \times 5$

$(9 + 3) \times (10 - 8)^3$

$(3 + 10) \times (5 - 2^2)$

Order of Operations (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(10 - 7 + 3^2) \times 6$
$= (10 - 7 + 9) \times 6$
$= (3 + 9) \times 6$
$= 12 \times 6$
$= 72$

$5 \div (8 + 2^2 - 7)$
$= 5 \div (8 + 4 - 7)$
$= 5 \div (12 - 7)$
$= 5 \div 5$
$= 1$

$(6 + 3) \times 8 - 2^2$
$= 9 \times 8 - 2^2$
$= 9 \times 8 - 4$
$= 72 - 4$
$= 68$

$5 \times (9 - 2^2 + 10)$
$= 5 \times (9 - 4 + 10)$
$= 5 \times (5 + 10)$
$= 5 \times 15$
$= 75$

$(2^2 + 8) \times (9 - 5)$
$= (4 + 8) \times (9 - 5)$
$= 12 \times (9 - 5)$
$= 12 \times 4$
$= 48$

$(7 - 2^3 \div 4) \times 9$
$= (7 - 8 \div 4) \times 9$
$= (7 - 2) \times 9$
$= 5 \times 9$
$= 45$

$5 \times (7 - 3 + 2^2)$
$= 5 \times (7 - 3 + 4)$
$= 5 \times (4 + 4)$
$= 5 \times 8$
$= 40$

$(7 + 4 - 2^3) \times 5$
$= (7 + 4 - 8) \times 5$
$= (11 - 8) \times 5$
$= 3 \times 5$
$= 15$

$(9 + 3) \times (10 - 8)^3$
$= 12 \times (10 - 8)^3$
$= 12 \times 2^3$
$= 12 \times 8$
$= 96$

$(3 + 10) \times (5 - 2^2)$
$= 13 \times (5 - 2^2)$
$= 13 \times (5 - 4)$
$= 13 \times 1$
$= 13$

Order of Operations (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(7 - 6 + 2)^2 \times 5$

$(4^2 + 3) \times (10 - 8)$

$2^2 \times (9 - 7 + 6)$

$4 + 7^2 \div (6 - 5)$

$(6^2 + 9) \div (10 - 5)$

$(4^2 - 8 + 10) \div 6$

$(2^3 - 5 + 7) \div 10$

$(4 + 6 - 2^3) \times 3$

$(3^2 - 9) \div 8 + 10$

$5 \div (4 \times 2 - 7)^3$

Order of Operations (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(7-6+2)^2 \times 5$
$= (1+2)^2 \times 5$
$= 3^2 \times 5$
$= 9 \times 5$
$= 45$

$2^2 \times (9-7+6)$
$= 2^2 \times (2+6)$
$= 2^2 \times 8$
$= 4 \times 8$
$= 32$

$(6^2+9) \div (10-5)$
$= (36+9) \div (10-5)$
$= 45 \div (10-5)$
$= 45 \div 5$
$= 9$

$(2^3-5+7) \div 10$
$= (8-5+7) \div 10$
$= (3+7) \div 10$
$= 10 \div 10$
$= 1$

$(3^2-9) \div 8+10$
$= (9-9) \div 8+10$
$= 0 \div 8+10$
$= 0+10$
$= 10$

$(4^2+3) \times (10-8)$
$= (16+3) \times (10-8)$
$= 19 \times (10-8)$
$= 19 \times 2$
$= 38$

$4+7^2 \div (6-5)$
$= 4+7^2 \div 1$
$= 4+49 \div 1$
$= 4+49$
$= 53$

$(4^2-8+10) \div 6$
$= (16-8+10) \div 6$
$= (8+10) \div 6$
$= 18 \div 6$
$= 3$

$(4+6-2^3) \times 3$
$= (4+6-8) \times 3$
$= (10-8) \times 3$
$= 2 \times 3$
$= 6$

$5 \div (4 \times 2-7)^3$
$= 5 \div (8-7)^3$
$= 5 \div 1^3$
$= 5 \div 1$
$= 5$

Order of Operations (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2^3 \times (3 + 8 \div 4)$

$(10 \div 5 + 2)^2 \times 4$

$3 \times (8 + 7 - 2^2)$

$8 \div (6 + 4 - 9)^2$

$4 \div (5^2 - 8 \times 3)$

$6^2 \div (10 + 4 - 8)$

$(10^2 - 7 + 3) \div 6$

$4 \times (6 + 9 - 3^2)$

$(3^2 - 7 + 5) \times 10$

$10 \times (2^3 + 7 - 6)$

Order of Operations (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$2^3 \times (3 + 8 \div 4)$
$= 2^3 \times (3 + 2)$
$= 2^3 \times 5$
$= 8 \times 5$
$= 40$

$3 \times (8 + 7 - 2^2)$
$= 3 \times (8 + 7 - 4)$
$= 3 \times (15 - 4)$
$= 3 \times 11$
$= 33$

$4 \div (5^2 - 8 \times 3)$
$= 4 \div (25 - 8 \times 3)$
$= 4 \div (25 - 24)$
$= 4 \div 1$
$= 4$

$(10^2 - 7 + 3) \div 6$
$= (100 - 7 + 3) \div 6$
$= (93 + 3) \div 6$
$= 96 \div 6$
$= 16$

$(3^2 - 7 + 5) \times 10$
$= (9 - 7 + 5) \times 10$
$= (2 + 5) \times 10$
$= 7 \times 10$
$= 70$

$(10 \div 5 + 2)^2 \times 4$
$= (2 + 2)^2 \times 4$
$= 4^2 \times 4$
$= 16 \times 4$
$= 64$

$8 \div (6 + 4 - 9)^2$
$= 8 \div (10 - 9)^2$
$= 8 \div 1^2$
$= 8 \div 1$
$= 8$

$6^2 \div (10 + 4 - 8)$
$= 6^2 \div (14 - 8)$
$= 6^2 \div 6$
$= 36 \div 6$
$= 6$

$4 \times (6 + 9 - 3^2)$
$= 4 \times (6 + 9 - 9)$
$= 4 \times (15 - 9)$
$= 4 \times 6$
$= 24$

$10 \times (2^3 + 7 - 6)$
$= 10 \times (8 + 7 - 6)$
$= 10 \times (15 - 6)$
$= 10 \times 9$
$= 90$

Order of Operations (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$6^2 \div (5 + 4 - 8)$

$2 \times (3^2 - 4) \div 5$

$8 \div (9 - 7) \times 2^2$

$5^2 + 7 \times (10 - 9)$

$(4 + 5 - 2^3) \times 8$

$4 \times 3 \div (7 - 2^2)$

$(5 - 4) \times (3^2 + 7)$

$(9 + 2^3 - 3) \times 6$

$6 \times (3 + 9 - 10)^3$

$(4 + 2 - 3)^2 \times 9$

Order of Operations (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$6^2 \div (5 + 4 - 8)$
$= 6^2 \div (9 - 8)$
$= 6^2 \div 1$
$= 36 \div 1$
$= 36$

$2 \times (3^2 - 4) \div 5$
$= 2 \times (9 - 4) \div 5$
$= 2 \times 5 \div 5$
$= 10 \div 5$
$= 2$

$8 \div (9 - 7) \times 2^2$
$= 8 \div 2 \times 2^2$
$= 8 \div 2 \times 4$
$= 4 \times 4$
$= 16$

$5^2 + 7 \times (10 - 9)$
$= 5^2 + 7 \times 1$
$= 25 + 7 \times 1$
$= 25 + 7$
$= 32$

$(4 + 5 - 2^3) \times 8$
$= (4 + 5 - 8) \times 8$
$= (9 - 8) \times 8$
$= 1 \times 8$
$= 8$

$4 \times 3 \div (7 - 2^2)$
$= 4 \times 3 \div (7 - 4)$
$= 4 \times 3 \div 3$
$= 12 \div 3$
$= 4$

$(5 - 4) \times (3^2 + 7)$
$= 1 \times (3^2 + 7)$
$= 1 \times (9 + 7)$
$= 1 \times 16$
$= 16$

$(9 + 2^3 - 3) \times 6$
$= (9 + 8 - 3) \times 6$
$= (17 - 3) \times 6$
$= 14 \times 6$
$= 84$

$6 \times (3 + 9 - 10)^3$
$= 6 \times (12 - 10)^3$
$= 6 \times 2^3$
$= 6 \times 8$
$= 48$

$(4 + 2 - 3)^2 \times 9$
$= (6 - 3)^2 \times 9$
$= 3^2 \times 9$
$= 9 \times 9$
$= 81$

Order of Operations (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(9 + 2 - 10) \times 4^3$

$(3 \times 5) \div (7 - 6)^2$

$\left(6 \times 2^3\right) \div 8 + 7$

$\left(4^3 \div (2 + 6)\right) \times 8$

$\left(4^2 - 5 + 10\right) \div 7$

$\left(9 \times 8 + 2^2\right) \div 4$

$9 + 2 \div (7 - 6)^2$

$(6 - 5 + 8) \div 3^2$

$(4 \div 2) \times 3 + 5^2$

$(9 \div 3)^3 \times 2 - 6$

Order of Operations (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(9+2-10)\times 4^3$
$=(11-10)\times 4^3$
$=1\times 4^3$
$=1\times 64$
$=64$

$(6\times 2^3)\div 8+7$
$=(6\times 8)\div 8+7$
$=48\div 8+7$
$=6+7$
$=13$

$(4^2-5+10)\div 7$
$=(16-5+10)\div 7$
$=(11+10)\div 7$
$=21\div 7$
$=3$

$9+2\div(7-6)^2$
$=9+2\div 1^2$
$=9+2\div 1$
$=9+2$
$=11$

$(4\div 2)\times 3+5^2$
$=2\times 3+5^2$
$=2\times 3+25$
$=6+25$
$=31$

$(3\times 5)\div(7-6)^2$
$=15\div(7-6)^2$
$=15\div 1^2$
$=15\div 1$
$=15$

$(4^3\div(2+6))\times 8$
$=(4^3\div 8)\times 8$
$=(64\div 8)\times 8$
$=8\times 8$
$=64$

$(9\times 8+2^2)\div 4$
$=(9\times 8+4)\div 4$
$=(72+4)\div 4$
$=76\div 4$
$=19$

$(6-5+8)\div 3^2$
$=(1+8)\div 3^2$
$=9\div 3^2$
$=9\div 9$
$=1$

$(9\div 3)^3\times 2-6$
$=3^3\times 2-6$
$=27\times 2-6$
$=54-6$
$=48$

Order of Operations (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(10-4)^2 \div 9 + 6$

$5 + 10 \times (3-2)^2$

$(2^3 - 8) \div 4 \times 6$

$(8^2 - 7 \times 4) \div 3$

$(3^2 - 2 + 9) \div 8$

$(7-2) \times 4^2 \div 8$

$6 \times (2^3 - 3 + 4)$

$(8^2 \div 4 - 2) \times 6$

$(4^2 - 3 + 2) \times 6$

$(2^3 - 7 + 8) \times 6$

Order of Operations (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(10-4)^2 \div 9 + 6$
$= 6^2 \div 9 + 6$
$= 36 \div 9 + 6$
$= 4 + 6$
$= 10$

$5 + 10 \times (3-2)^2$
$= 5 + 10 \times 1^2$
$= 5 + 10 \times 1$
$= 5 + 10$
$= 15$

$(2^3 - 8) \div 4 \times 6$
$= (8-8) \div 4 \times 6$
$= 0 \div 4 \times 6$
$= 0 \times 6$
$= 0$

$(8^2 - 7 \times 4) \div 3$
$= (64 - 7 \times 4) \div 3$
$= (64 - 28) \div 3$
$= 36 \div 3$
$= 12$

$(3^2 - 2 + 9) \div 8$
$= (9 - 2 + 9) \div 8$
$= (7 + 9) \div 8$
$= 16 \div 8$
$= 2$

$(7-2) \times 4^2 \div 8$
$= 5 \times 4^2 \div 8$
$= 5 \times 16 \div 8$
$= 80 \div 8$
$= 10$

$6 \times (2^3 - 3 + 4)$
$= 6 \times (8 - 3 + 4)$
$= 6 \times (5 + 4)$
$= 6 \times 9$
$= 54$

$(8^2 \div 4 - 2) \times 6$
$= (64 \div 4 - 2) \times 6$
$= (16 - 2) \times 6$
$= 14 \times 6$
$= 84$

$(4^2 - 3 + 2) \times 6$
$= (16 - 3 + 2) \times 6$
$= (13 + 2) \times 6$
$= 15 \times 6$
$= 90$

$(2^3 - 7 + 8) \times 6$
$= (8 - 7 + 8) \times 6$
$= (1 + 8) \times 6$
$= 9 \times 6$
$= 54$

Order of Operations (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3 + 9 - 8)^2 \times 5$

$9 \times (8 - 2^3 + 7)$

$(8^2 + 4 - 10) \div 2$

$(10^2 - 5 \times 4) \div 2$

$9 \times (7 + 6 - 3^2)$

$(5 - 2)^3 \times 3 + 8$

$7 \times (4^2 + 2 - 8)$

$(9 - 3) \div 6 + 5^2$

$(6^2 \div 9) \times (5 + 3)$

$(7 + 9 - 10)^2 \div 3$

Order of Operations (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3+9-8)^2 \times 5$
$= (12-8)^2 \times 5$
$= 4^2 \times 5$
$= 16 \times 5$
$= 80$

$(8^2+4-10) \div 2$
$= (64+4-10) \div 2$
$= (68-10) \div 2$
$= 58 \div 2$
$= 29$

$9 \times (7+6-3^2)$
$= 9 \times (7+6-9)$
$= 9 \times (13-9)$
$= 9 \times 4$
$= 36$

$7 \times (4^2+2-8)$
$= 7 \times (16+2-8)$
$= 7 \times (18-8)$
$= 7 \times 10$
$= 70$

$(6^2 \div 9) \times (5+3)$
$= (36 \div 9) \times (5+3)$
$= 4 \times (5+3)$
$= 4 \times 8$
$= 32$

$9 \times (8-2^3+7)$
$= 9 \times (8-8+7)$
$= 9 \times (0+7)$
$= 9 \times 7$
$= 63$

$(10^2-5 \times 4) \div 2$
$= (100-5 \times 4) \div 2$
$= (100-20) \div 2$
$= 80 \div 2$
$= 40$

$(5-2)^3 \times 3+8$
$= 3^3 \times 3+8$
$= 27 \times 3+8$
$= 81+8$
$= 89$

$(9-3) \div 6+5^2$
$= 6 \div 6+5^2$
$= 6 \div 6+25$
$= 1+25$
$= 26$

$(7+9-10)^2 \div 3$
$= (16-10)^2 \div 3$
$= 6^2 \div 3$
$= 36 \div 3$
$= 12$

Order of Operations (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3 + 5 - 8)^2 \times 9$

$6^2 + 10 \times (9 \div 3)$

$(5 + 7^2 - 6) \times 2$

$8 \times (9 + 5 - 2^3)$

$(4^2 - 10 + 6) \times 5$

$(2^2 + 8 - 4) \times 7$

$(3^2 + 4) \div (9 - 8)$

$(3^3 - 10) \times 4 + 5$

$(4^3 + 5) \times (9 - 8)$

$6 + 7 \div (10 - 3^2)$

Order of Operations (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$(3+5-8)^2 \times 9$
$= (8-8)^2 \times 9$
$= 0^2 \times 9$
$= 0 \times 9$
$= 0$

$6^2 + 10 \times (9 \div 3)$
$= 6^2 + 10 \times 3$
$= 36 + 10 \times 3$
$= 36 + 30$
$= 66$

$(5 + 7^2 - 6) \times 2$
$= (5 + 49 - 6) \times 2$
$= (54 - 6) \times 2$
$= 48 \times 2$
$= 96$

$8 \times (9 + 5 - 2^3)$
$= 8 \times (9 + 5 - 8)$
$= 8 \times (14 - 8)$
$= 8 \times 6$
$= 48$

$(4^2 - 10 + 6) \times 5$
$= (16 - 10 + 6) \times 5$
$= (6 + 6) \times 5$
$= 12 \times 5$
$= 60$

$(2^2 + 8 - 4) \times 7$
$= (4 + 8 - 4) \times 7$
$= (12 - 4) \times 7$
$= 8 \times 7$
$= 56$

$(3^2 + 4) \div (9 - 8)$
$= (9 + 4) \div (9 - 8)$
$= 13 \div (9 - 8)$
$= 13 \div 1$
$= 13$

$(3^3 - 10) \times 4 + 5$
$= (27 - 10) \times 4 + 5$
$= 17 \times 4 + 5$
$= 68 + 5$
$= 73$

$(4^3 + 5) \times (9 - 8)$
$= (64 + 5) \times (9 - 8)$
$= 69 \times (9 - 8)$
$= 69 \times 1$
$= 69$

$6 + 7 \div (10 - 3^2)$
$= 6 + 7 \div (10 - 9)$
$= 6 + 7 \div 1$
$= 6 + 7$
$= 13$

Order of Operations (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$((8-4)\div 2)^3\times 3$

$(8\times 9)\div(3-2)^3$

$6^2-7\times(8\div 2)$

$9\times(4-3+2)^2$

$\left(2-4^2\div 8\right)\times 5$

$\left(2^3-8\right)\div 10\times 9$

$\left(10+4^3-2\right)\div 3$

$\left(3^3-4+2\right)\div 5$

$10\times\left(5-4+3^2\right)$

$\left(8^2+4\right)\div(6-5)$

Order of Operations (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$((8-4)\div 2)^3\times 3$
$=(4\div 2)^3\times 3$
$=2^3\times 3$
$=8\times 3$
$=24$

$(8\times 9)\div(3-2)^3$
$=72\div(3-2)^3$
$=72\div 1^3$
$=72\div 1$
$=72$

$6^2-7\times(8\div 2)$
$=6^2-7\times 4$
$=36-7\times 4$
$=36-28$
$=8$

$9\times(4-3+2)^2$
$=9\times(1+2)^2$
$=9\times 3^2$
$=9\times 9$
$=81$

$(2-4^2\div 8)\times 5$
$=(2-16\div 8)\times 5$
$=(2-2)\times 5$
$=0\times 5$
$=0$

$(2^3-8)\div 10\times 9$
$=(8-8)\div 10\times 9$
$=0\div 10\times 9$
$=0\times 9$
$=0$

$(10+4^3-2)\div 3$
$=(10+64-2)\div 3$
$=(74-2)\div 3$
$=72\div 3$
$=24$

$(3^3-4+2)\div 5$
$=(27-4+2)\div 5$
$=(23+2)\div 5$
$=25\div 5$
$=5$

$10\times(5-4+3^2)$
$=10\times(5-4+9)$
$=10\times(1+9)$
$=10\times 10$
$=100$

$(8^2+4)\div(6-5)$
$=(64+4)\div(6-5)$
$=68\div(6-5)$
$=68\div 1$
$=68$