Order of Operations (J)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$10 \div \left(3^2 - 2^3 + 4\right) \times 7$

$\left(10 + 5^2\right) \times \left(9 - 3^2\right) \div 2$

$7 \div (10 - 6 + 3) \times \left(9^2 + 8\right)$

$6^2 \div \left(8 + 4 - 2^3\right) \times 7$

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

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

Order of Operations (J)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$10 \div (3^2 - 2^3 + 4) \times 7$
$= 10 \div (9 - 2^3 + 4) \times 7$
$= 10 \div (9 - 8 + 4) \times 7$
$= 10 \div (1 + 4) \times 7$
$= 10 \div 5 \times 7$
$= 2 \times 7$
$= 14$

$(10 + 5^2) \times (9 - 3^2) \div 2$
$= (10 + 25) \times (9 - 3^2) \div 2$
$= 35 \times (9 - 3^2) \div 2$
$= 35 \times (9 - 9) \div 2$
$= 35 \times 0 \div 2$
$= 0 \div 2$
$= 0$

$7 \div (10 - 6 + 3) \times (9^2 + 8)$
$= 7 \div (4 + 3) \times (9^2 + 8)$
$= 7 \div 7 \times (9^2 + 8)$
$= 7 \div 7 \times (81 + 8)$
$= 7 \div 7 \times 89$
$= 1 \times 89$
$= 89$

$6^2 \div (8 + 4 - 2^3) \times 7$
$= 6^2 \div (8 + 4 - 8) \times 7$
$= 6^2 \div (12 - 8) \times 7$
$= 6^2 \div 4 \times 7$
$= 36 \div 4 \times 7$
$= 9 \times 7$
$= 63$

$2^3 - 6 \times ((4 + 9) \div (8 + 5))$
$= 2^3 - 6 \times (13 \div (8 + 5))$
$= 2^3 - 6 \times (13 \div 13)$
$= 2^3 - 6 \times 1$
$= 8 - 6 \times 1$
$= 8 - 6$
$= 2$

$9 + 6 - 10^2 \div (2^2 \times 5)$
$= 9 + 6 - 10^2 \div (4 \times 5)$
$= 9 + 6 - 10^2 \div 20$
$= 9 + 6 - 100 \div 20$
$= 9 + 6 - 5$
$= 15 - 5$
$= 10$