Order of Operations (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

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

$(3^2 + 7 - 9) \times (4^3 \div 8)$

$\left(10^2 \div (6 + 8 - 9)^2\right) \times 4$

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

$(10 \times 6) \div (4^2 - 5 + 3^2)$

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

Order of Operations (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$8 + 5 - 3 \times 2^3 \div (9 - 6)$
$= 8 + 5 - 3 \times 2^3 \div 3$
$= 8 + 5 - 3 \times 8 \div 3$
$= 8 + 5 - 24 \div 3$
$= 8 + 5 - 8$
$= 13 - 8$
$= 5$

$(3^2 + 7 - 9) \times (4^3 \div 8)$
$= (9 + 7 - 9) \times (4^3 \div 8)$
$= (16 - 9) \times (4^3 \div 8)$
$= 7 \times (4^3 \div 8)$
$= 7 \times (64 \div 8)$
$= 7 \times 8$
$= 56$

$\left(10^2 \div (6 + 8 - 9)^2\right) \times 4$
$= \left(10^2 \div (14 - 9)^2\right) \times 4$
$= (10^2 \div 5^2) \times 4$
$= (100 \div 5^2) \times 4$
$= (100 \div 25) \times 4$
$= 4 \times 4$
$= 16$

$(4 - 2^2) \times 3 \div 7 + 8^2$
$= (4 - 4) \times 3 \div 7 + 8^2$
$= 0 \times 3 \div 7 + 8^2$
$= 0 \times 3 \div 7 + 64$
$= 0 \div 7 + 64$
$= 0 + 64$
$= 64$

$(10 \times 6) \div (4^2 - 5 + 3^2)$
$= 60 \div (4^2 - 5 + 3^2)$
$= 60 \div (16 - 5 + 3^2)$
$= 60 \div (16 - 5 + 9)$
$= 60 \div (11 + 9)$
$= 60 \div 20$
$= 3$

$(3^2 \times 4) \div 6 + 5^2 - 2$
$= (9 \times 4) \div 6 + 5^2 - 2$
$= 36 \div 6 + 5^2 - 2$
$= 36 \div 6 + 25 - 2$
$= 6 + 25 - 2$
$= 31 - 2$
$= 29$