Order of Operations (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$8 \times (10 + 5 - 6) \div 2^3$

$(7 - 5 + 6) \times \left(8 \div 2^2\right)$

$(7 - 5)^3 \times 6 \div 2 + 8$

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

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

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

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

$\left(7 + 4^3 \div 8 - 10\right) \times 9$

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Name: _____ Date: _____

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$8 \times (10 + 5 - 6) \div 2^3$
$= 8 \times (15 - 6) \div 2^3$
$= 8 \times 9 \div 2^3$
$= 8 \times 9 \div 8$
$= 72 \div 8$
$= 9$

$(7 - 5 + 6) \times (8 \div 2^2)$
$= (2 + 6) \times (8 \div 2^2)$
$= 8 \times (8 \div 2^2)$
$= 8 \times (8 \div 4)$
$= 8 \times 2$
$= 16$

$(7 - 5)^3 \times 6 \div 2 + 8$
$= 2^3 \times 6 \div 2 + 8$
$= 8 \times 6 \div 2 + 8$
$= 48 \div 2 + 8$
$= 24 + 8$
$= 32$

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

$((9 + 5 - 6) \times 8) \div 4^3$
$= ((14 - 6) \times 8) \div 4^3$
$= (8 \times 8) \div 4^3$
$= 64 \div 4^3$
$= 64 \div 64$
$= 1$

$(6 \div 3)^3 \times 9 + 5 - 4$
$= 2^3 \times 9 + 5 - 4$
$= 8 \times 9 + 5 - 4$
$= 72 + 5 - 4$
$= 77 - 4$
$= 73$

$(2^2 + 8 \times 10) \div (7 - 6)$
$= (4 + 8 \times 10) \div (7 - 6)$
$= (4 + 80) \div (7 - 6)$
$= 84 \div (7 - 6)$
$= 84 \div 1$
$= 84$

$(7 + 4^3 \div 8 - 10) \times 9$
$= (7 + 64 \div 8 - 10) \times 9$
$= (7 + 8 - 10) \times 9$
$= (15 - 10) \times 9$
$= 5 \times 9$
$= 45$