Order of Operations with Decimals (H)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2$

$\left((2.4)^2 \div 7.2\right) \times 9.6 + (7.3)^2 - 1.3$

$(4.3)^2 + 3.6 \div 0.4 \times \left(8.7 - (2.5)^2\right)$

$(7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2$

$(2.7)^2 - 9.3 \div 6.2 \times \left((1.6)^2 + 0.4\right)$

$(4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7)$

Order of Operations with Decimals (H) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$(3.3 \div 6.6) \times 9.1 + 5.2 - 7.6 + (3.1)^2$
$= 0.5 \times 9.1 + 5.2 - 7.6 + (3.1)^2$
$= 0.5 \times 9.1 + 5.2 - 7.6 + 9.61$
$= 4.55 + 5.2 - 7.6 + 9.61$
$= 9.75 - 7.6 + 9.61$
$= 2.15 + 9.61$
$= 11.76$

$\left((2.4)^2 \div 7.2\right) \times 9.6 + (7.3)^2 - 1.3$
$= (5.76 \div 7.2) \times 9.6 + (7.3)^2 - 1.3$
$= 0.8 \times 9.6 + (7.3)^2 - 1.3$
$= 0.8 \times 9.6 + 53.29 - 1.3$
$= 7.68 + 53.29 - 1.3$
$= 60.97 - 1.3$
$= 59.67$

$(4.3)^2 + 3.6 \div 0.4 \times \left(8.7 - (2.5)^2\right)$
$= (4.3)^2 + 3.6 \div 0.4 \times (8.7 - 6.25)$
$= (4.3)^2 + 3.6 \div 0.4 \times 2.45$
$= 18.49 + 3.6 \div 0.4 \times 2.45$
$= 18.49 + 9 \times 2.45$
$= 18.49 + 22.05$
$= 40.54$

$(7.2 - 5.5) \times 7.1 \div 1.7 + 9.5 - (2.5)^2$
$= 1.7 \times 7.1 \div 1.7 + 9.5 - (2.5)^2$
$= 1.7 \times 7.1 \div 1.7 + 9.5 - 6.25$
$= 12.07 \div 1.7 + 9.5 - 6.25$
$= 7.1 + 9.5 - 6.25$
$= 16.6 - 6.25$
$= 10.35$

$(2.7)^2 - 9.3 \div 6.2 \times \left((1.6)^2 + 0.4\right)$
$= (2.7)^2 - 9.3 \div 6.2 \times (2.56 + 0.4)$
$= (2.7)^2 - 9.3 \div 6.2 \times 2.96$
$= 7.29 - 9.3 \div 6.2 \times 2.96$
$= 7.29 - 1.5 \times 2.96$
$= 7.29 - 4.44$
$= 2.85$

$(4.6)^2 - (4.5)^2 + 8.6 \times (5.4 \div 2.7)$
$= (4.6)^2 - (4.5)^2 + 8.6 \times 2$
$= 21.16 - (4.5)^2 + 8.6 \times 2$
$= 21.16 - 20.25 + 8.6 \times 2$
$= 21.16 - 20.25 + 17.2$
$= 0.91 + 17.2$
$= 18.11$