Order of Operations with Decimals (J)

Name: _____

Date: _____

Solve each expression using the correct order of operations.

$1.8 \times \left((1.5)^2 + 5.8 - 2.2 \right)$

$1.3 - 7.2 \div \left(3.8 + (1.4)^2 \right)$

$(4.5 + 8.2 - 9.8)^2 \div 2.9$

$(5.3 + 4.6 - 3.3)^2 \div 1.2$

$(1.8)^2 \times (7.1 + 6.2 - 5.3)$

$8.2 \times \left((2.5)^2 - 2.6 + 4.9 \right)$

$6.5 \div (4.7 + 1.8) \times (8.7)^2$

$(2.5)^2 \times (4.5 + 2.9 - 6.4)$

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Solve each expression using the correct order of operations.

$1.8 \times \left((1.5)^2 + 5.8 - 2.2 \right)$
$= 1.8 \times (2.25 + 5.8 - 2.2)$
$= 1.8 \times (8.05 - 2.2)$
$= 1.8 \times 5.85$
$= 10.53$

$1.3 - 7.2 \div \left(3.8 + (1.4)^2 \right)$
$= 1.3 - 7.2 \div (3.8 + 1.96)$
$= 1.3 - 7.2 \div 5.76$
$= 1.3 - 1.25$
$= 0.05$

$(4.5 + 8.2 - 9.8)^2 \div 2.9$
$= (12.7 - 9.8)^2 \div 2.9$
$= (2.9)^2 \div 2.9$
$= 8.41 \div 2.9$
$= 2.9$

$(5.3 + 4.6 - 3.3)^2 \div 1.2$
$= (9.9 - 3.3)^2 \div 1.2$
$= (6.6)^2 \div 1.2$
$= 43.56 \div 1.2$
$= 36.3$

$(1.8)^2 \times (7.1 + 6.2 - 5.3)$
$= (1.8)^2 \times (13.3 - 5.3)$
$= (1.8)^2 \times 8$
$= 3.24 \times 8$
$= 25.92$

$8.2 \times \left((2.5)^2 - 2.6 + 4.9 \right)$
$= 8.2 \times (6.25 - 2.6 + 4.9)$
$= 8.2 \times (3.65 + 4.9)$
$= 8.2 \times 8.55$
$= 70.11$

$6.5 \div (4.7 + 1.8) \times (8.7)^2$
$= 6.5 \div 6.5 \times (8.7)^2$
$= 6.5 \div 6.5 \times 75.69$
$= 1 \times 75.69$
$= 75.69$

$(2.5)^2 \times (4.5 + 2.9 - 6.4)$
$= (2.5)^2 \times (7.4 - 6.4)$
$= (2.5)^2 \times 1$
$= 6.25 \times 1$
$= 6.25$