Order of Operations with Decimals (C)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.5 + 2.3 \times \left(3.6 \div (4.1 - 3.1)^2\right)$

$1.5 \times \left(6.6 + (6.8)^2\right) \div (6.7 - 4.7)$

$\left((5.6)^2 \div 2.8\right) \times 2.8 + 2.7 - 7.8$

$4.1 \times ((3.5 + 8.3 - 4.2) \div 3.8)^3$

$9.9 \times 1.5 + (3.3)^2 \div (2.9 - 2.3)$

$5.3 \times 7.6 + 1.4 \div (7.1 - 6.1)^3$

$\left(4.3 + 9.2 \times 9.7 - (3.3)^2\right) \div 9.5$

$\left(6.6 - 2.1 + (7.2)^2 \div 9.6\right) \times 2.2$

Order of Operations with Decimals (C) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$2.5 + 2.3 \times \left(3.6 \div (4.1 - 3.1)^2\right)$
$= 2.5 + 2.3 \times (3.6 \div 1^2)$
$= 2.5 + 2.3 \times (3.6 \div 1)$
$= 2.5 + 2.3 \times 3.6$
$= 2.5 + 8.28$
$= 10.78$

$1.5 \times \left(6.6 + (6.8)^2\right) \div (6.7 - 4.7)$
$= 1.5 \times (6.6 + 46.24) \div (6.7 - 4.7)$
$= 1.5 \times 52.84 \div (6.7 - 4.7)$
$= 1.5 \times 52.84 \div 2$
$= 79.26 \div 2$
$= 39.63$

$\left((5.6)^2 \div 2.8\right) \times 2.8 + 2.7 - 7.8$
$= (31.36 \div 2.8) \times 2.8 + 2.7 - 7.8$
$= 11.2 \times 2.8 + 2.7 - 7.8$
$= 31.36 + 2.7 - 7.8$
$= 34.06 - 7.8$
$= 26.26$

$4.1 \times ((3.5 + 8.3 - 4.2) \div 3.8)^3$
$= 4.1 \times ((11.8 - 4.2) \div 3.8)^3$
$= 4.1 \times (7.6 \div 3.8)^3$
$= 4.1 \times 2^3$
$= 4.1 \times 8$
$= 32.8$

$9.9 \times 1.5 + (3.3)^2 \div (2.9 - 2.3)$
$= 9.9 \times 1.5 + (3.3)^2 \div 0.6$
$= 9.9 \times 1.5 + 10.89 \div 0.6$
$= 14.85 + 10.89 \div 0.6$
$= 14.85 + 18.15$
$= 33$

$5.3 \times 7.6 + 1.4 \div (7.1 - 6.1)^3$
$= 5.3 \times 7.6 + 1.4 \div 1^3$
$= 5.3 \times 7.6 + 1.4 \div 1$
$= 40.28 + 1.4 \div 1$
$= 40.28 + 1.4$
$= 41.68$

$\left(4.3 + 9.2 \times 9.7 - (3.3)^2\right) \div 9.5$
$= (4.3 + 9.2 \times 9.7 - 10.89) \div 9.5$
$= (4.3 + 89.24 - 10.89) \div 9.5$
$= (93.54 - 10.89) \div 9.5$
$= 82.65 \div 9.5$
$= 8.7$

$\left(6.6 - 2.1 + (7.2)^2 \div 9.6\right) \times 2.2$
$= (6.6 - 2.1 + 51.84 \div 9.6) \times 2.2$
$= (6.6 - 2.1 + 5.4) \times 2.2$
$= (4.5 + 5.4) \times 2.2$
$= 9.9 \times 2.2$
$= 21.78$