Order of Operations with Decimals (B)

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$5.2 \times \left((0.5)^2 + 9.7 - 2.7\right)$

$\left((-2.4)^2 \div (-1.6) + 8.8\right) \times (-1.9)$

$\left((-3.7)^2 - 8.8\right) \times ((-6.8) + (-1.2))$

$(-7.3) + (9.4)^2 \div (4.7 \times 1.6)$

$((-0.5) + (-1.7) - (-9.9))^2 \div (-1.4)$

$(6.1 + (-1.1)) \times ((-6.8) - (-2.7))^2$

$2.8 \times \left((2.5)^2 + 9.6 \div (-6.4)\right)$

$0.4 - (-1.7) \times ((-3.6) + 1.6)^3$

Order of Operations with Decimals (B) Answers

Name: _____ Date: _____

Solve each expression using the correct order of operations.

$5.2 \times \left((0.5)^2 + 9.7 - 2.7\right)$
$= 5.2 \times (0.25 + 9.7 - 2.7)$
$= 5.2 \times (9.95 - 2.7)$
$= 5.2 \times 7.25$
$= 37.7$

$\left((-2.4)^2 \div (-1.6) + 8.8\right) \times (-1.9)$
$= \left(5.76 \div (-1.6) + 8.8\right) \times (-1.9)$
$= \left((-3.6) + 8.8\right) \times (-1.9)$
$= 5.2 \times (-1.9)$
$= -9.88$

$\left((-3.7)^2 - 8.8\right) \times ((-6.8) + (-1.2))$
$= (13.69 - 8.8) \times ((-6.8) + (-1.2))$
$= 4.89 \times \left((-6.8) + (-1.2)\right)$
$= 4.89 \times (-8)$
$= -39.12$

$(-7.3) + (9.4)^2 \div (4.7 \times 1.6)$
$= (-7.3) + (9.4)^2 \div 7.52$
$= (-7.3) + 88.36 \div 7.52$
$= (-7.3) + 11.75$
$= 4.45$

$\left((-0.5) + (-1.7) - (-9.9)\right)^2 \div (-1.4)$
$= \left((-2.2) - (-9.9)\right)^2 \div (-1.4)$
$= (7.7)^2 \div (-1.4)$
$= 59.29 \div (-1.4)$
$= -42.35$

$\left(6.1 + (-1.1)\right) \times ((-6.8) - (-2.7))^2$
$= 5 \times \left((-6.8) - (-2.7)\right)^2$
$= 5 \times (-4.1)^2$
$= 5 \times 16.81$
$= 84.05$

$2.8 \times \left((2.5)^2 + 9.6 \div (-6.4)\right)$
$= 2.8 \times \left(6.25 + 9.6 \div (-6.4)\right)$
$= 2.8 \times \left(6.25 + (-1.5)\right)$
$= 2.8 \times 4.75$
$= 13.3$

$0.4 - (-1.7) \times \left((-3.6) + 1.6\right)^3$
$= 0.4 - (-1.7) \times (-2)^3$
$= 0.4 - (-1.7) \times (-8)$
$= 0.4 - 13.6$
$= -13.2$