Order of Operations with Decimals (H)

Name:
_____

Date:
_____

Simplify each expression using the correct order of operations.

$(-3.5) \times (-1.8) - (0.2)^2 + 3.1 \div (0.6 - (-1.9))$

$\left((-5.9) - 7.2 + (-3.2)^2\right) \times (7.1 \div (-7.1))^2$

$\left((1.4)^2 - 2.6 \times (-6.5) + (-1.8) \div 0.1\right) \times 5.5$

Order of Operations with Decimals (H) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$(-3.5) \times (-1.8) - (0.2)^2 + 3.1 \div \underline{(0.6 - (-1.9))}$

$= (-3.5) \times (-1.8) - \underline{(0.2)^2} + 3.1 \div 2.5$

$= \underline{(-3.5) \times (-1.8)} - 0.04 + 3.1 \div 2.5$

$= 6.3 - 0.04 + \underline{3.1 \div 2.5}$

$= \underline{6.3 - 0.04} + 1.24$

$= \underline{6.26 + 1.24}$

$= 7.5$

$\left((-5.9) - 7.2 + \underline{(-3.2)^2}\right) \times (7.1 \div (-7.1))^2$

$= \left(\underline{(-5.9) - 7.2} + 10.24\right) \times (7.1 \div (-7.1))^2$

$= \left(\underline{(-13.1) + 10.24}\right) \times (7.1 \div (-7.1))^2$

$= (-2.86) \times \left(\underline{7.1 \div (-7.1)}\right)^2$

$= (-2.86) \times \underline{(-1)^2}$

$= \underline{(-2.86) \times 1}$

$= -2.86$

$\left(\underline{(1.4)^2} - 2.6 \times (-6.5) + (-1.8) \div 0.1\right) \times 5.5$

$= \left(1.96 - \underline{2.6 \times (-6.5)} + (-1.8) \div 0.1\right) \times 5.5$

$= \left(1.96 - (-16.9) + \underline{(-1.8) \div 0.1}\right) \times 5.5$

$= \left(\underline{1.96 - (-16.9)} + (-18)\right) \times 5.5$

$= \left(\underline{18.86 + (-18)}\right) \times 5.5$

$= \underline{0.86 \times 5.5}$

$= 4.73$

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