

Order of Operations with Decimals (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.6 \times 3.7 + (3.2)^2 - 4.8) \div 1.4$$

$$3.75 \times ((2.2 + 3.2)^2 \div 8.1 - 1.4)$$

$$((2.2 + 8.9) \div 7.4)^2 \times 5.4 - 6.4$$

$$(6.6 \div 2.2) \times 3.9 + (3.1)^2 - 7.5$$

$$((5.8)^2 \div (1.2 + 8.3 - 6.6)) \times 2.3$$

$$9.8 \times (1.9 \div (2.5 + 5.7 - 4.4))^2$$

$$((8.5)^2 + 2.8 \times 2.3) \div (6.7 - 3.7)$$

$$(4.1 + 2.7 - 6.8) \div (1.4)^2 \times 7.9$$

Order of Operations with Decimals (I) Answers

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$(3.6 \times 3.7 + \underline{(3.2)^2} - 4.8) \div 1.4$$

$$= (\underline{3.6 \times 3.7} + 10.24 - 4.8) \div 1.4$$

$$= (\underline{13.32 + 10.24} - 4.8) \div 1.4$$

$$= (\underline{23.56} - 4.8) \div 1.4$$

$$= \underline{18.76} \div 1.4$$

$$= \underline{13.4}$$

$$3.75 \times ((\underline{2.2 + 3.2})^2 \div 8.1 - 1.4)$$

$$= 3.75 \times (\underline{(5.4)^2} \div 8.1 - 1.4)$$

$$= 3.75 \times (\underline{29.16 \div 8.1} - 1.4)$$

$$= 3.75 \times (\underline{3.6} - 1.4)$$

$$= \underline{3.75 \times 2.2}$$

$$= \underline{8.25}$$

$$((\underline{2.2 + 8.9}) \div 7.4)^2 \times 5.4 - 6.4$$

$$= (\underline{11.1 \div 7.4})^2 \times 5.4 - 6.4$$

$$= (\underline{1.5})^2 \times 5.4 - 6.4$$

$$= \underline{2.25 \times 5.4} - 6.4$$

$$= \underline{12.15} - 6.4$$

$$= \underline{5.75}$$

$$(\underline{6.6 \div 2.2}) \times 3.9 + (3.1)^2 - 7.5$$

$$= 3 \times 3.9 + (\underline{3.1})^2 - 7.5$$

$$= \underline{3 \times 3.9} + 9.61 - 7.5$$

$$= \underline{11.7 + 9.61} - 7.5$$

$$= \underline{21.31} - 7.5$$

$$= \underline{13.81}$$

$$((5.8)^2 \div (\underline{1.2 + 8.3} - 6.6)) \times 2.3$$

$$= ((5.8)^2 \div (\underline{9.5} - 6.6)) \times 2.3$$

$$= (\underline{(5.8)^2} \div 2.9) \times 2.3$$

$$= (\underline{33.64 \div 2.9}) \times 2.3$$

$$= \underline{11.6 \times 2.3}$$

$$= \underline{26.68}$$

$$9.8 \times (1.9 \div (\underline{2.5 + 5.7} - 4.4))^2$$

$$= 9.8 \times (1.9 \div (\underline{8.2} - 4.4))^2$$

$$= 9.8 \times (\underline{1.9 \div 3.8})^2$$

$$= 9.8 \times (\underline{0.5})^2$$

$$= \underline{9.8 \times 0.25}$$

$$= \underline{2.45}$$

$$((\underline{8.5})^2 + 2.8 \times 2.3) \div (6.7 - 3.7)$$

$$= (72.25 + \underline{2.8 \times 2.3}) \div (6.7 - 3.7)$$

$$= (\underline{72.25 + 6.44}) \div (6.7 - 3.7)$$

$$= 78.69 \div (\underline{6.7} - 3.7)$$

$$= \underline{78.69 \div 3}$$

$$= \underline{26.23}$$

$$(\underline{4.1 + 2.7} - 6.8) \div (1.4)^2 \times 7.9$$

$$= (\underline{6.8} - 6.8) \div (1.4)^2 \times 7.9$$

$$= 0 \div (\underline{1.4})^2 \times 7.9$$

$$= \underline{0 \div 1.96} \times 7.9$$

$$= \underline{0 \times 7.9}$$

$$= \underline{0}$$