

Algebra Foundations

HW 1 Order of Operations with Integers

Name: _____

Date: _____ Per. _____

Simplify each expression. Notice that the parentheses change the value!

1.) $7 - 5 \cdot 8 + 6 \div 2 = \underline{\hspace{2cm}}$

2.) $4 + 9 - 6 \div 2 \cdot 5 + 1 = \underline{\hspace{2cm}}$

$(7 - 5) \cdot (8 + 6) \div 2 = \underline{\hspace{2cm}}$

$4 + 9 - (6 \div 2) \cdot (5 + 1) = \underline{\hspace{2cm}}$

$(7 - 5) \cdot 8 + (6 \div 2) = \underline{\hspace{2cm}}$

$(4 + 9 - 6 \div 2) \cdot 5 + 1 = \underline{\hspace{2cm}}$

Fix these equations! None of the statements below is correct as written. Rewrite them, inserting parentheses so that the resulting statements are correct equations. Some are challenging!!!

3.) $2 + 3 \cdot 4 = 20$

7.) $8 - 15 + 6 \div 3 = 1$

4.) $3 + 4 \cdot 6 - 8 = -5$

8.) $7 + 3^2 = 100$

5.) $5 \cdot 2 - 4 \div 6 - 4 = 8$

9.) $24 + 16 \div 8 - 4 = 10$

6.) $12 - 8 \cdot 1 + 7 = 32$

10.) $20 \div 7 - 2 + 5^2 \cdot 3 = 79$