Name_____

Week 7: Sept. 19 - Sept. 23

Date_____ Period_____

Write each number correctly in scientific notation.

1) 0.868×10^{-2}

   0.08×10^{2}

   0.0228×10^{1}

   58.8×10^{-3}

   After written correctly, find the product of the smallest value and largest value.

Solve the equation. Follow each step.

2) Scott was going to sell all of his stamp collection to buy a video game. After selling half of them he changed his mind and bought ten more. How many did he start with if he now has 22?

   Define variable: _____

   Equation: _____

   Answer: _____

Simplify each expression.

3) $-5(9 - 2b) - 7$

4) $8 - 3(1 + 5r)$

5) $-3.4x + 3.5(1.3x + 0.4)$

6) $8.2(k - 5.5) + 3.2k$

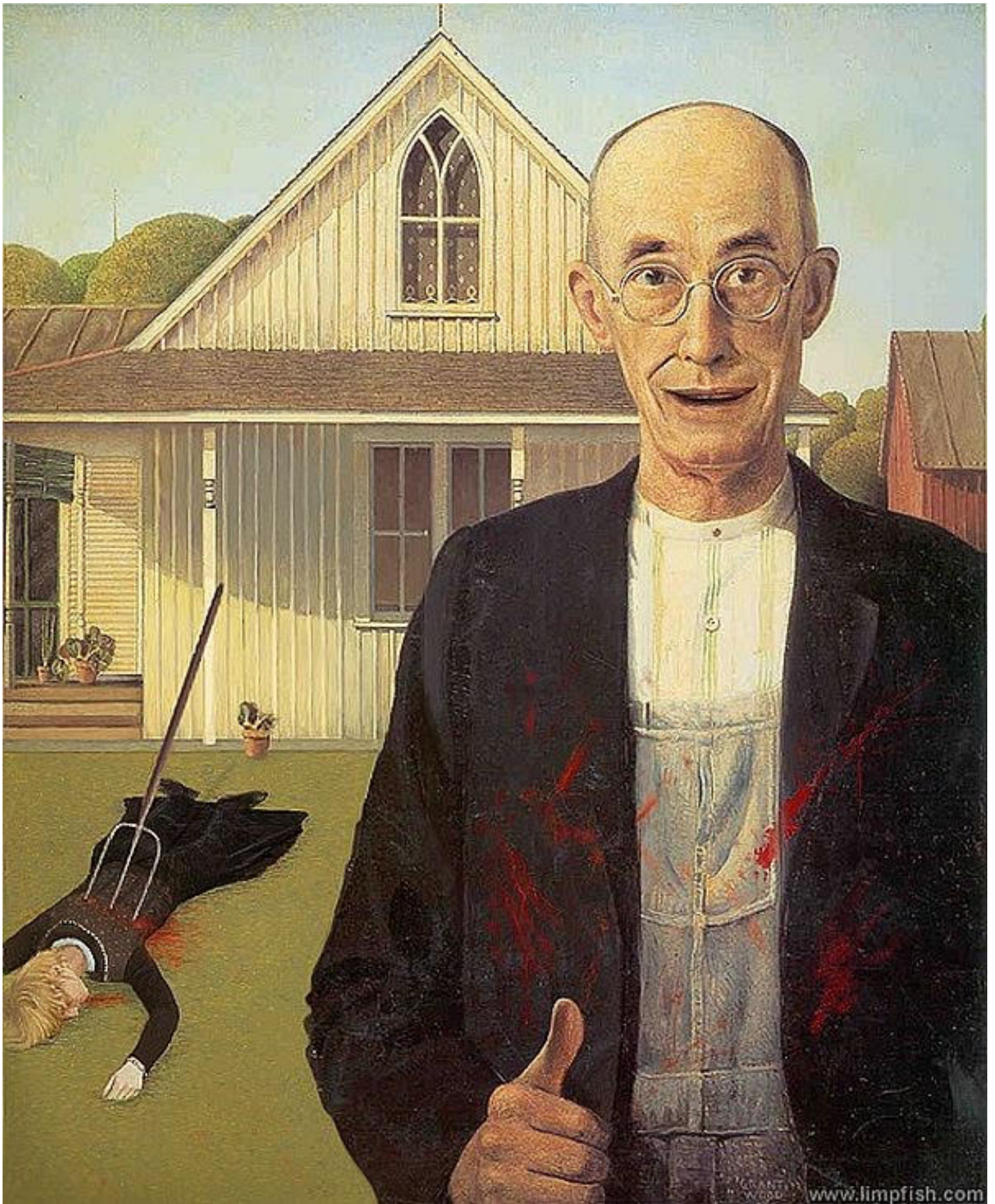**Evaluate each using the values given.**

7) $|z|(y + y)$; use $y = 6$, and $z = -5$

8) $z - (zy + x + y)$; use $x = 4$, $y = -3$, and $z = 2$

Solve each equation.

9) $-8(x - 5) = 88$

10) $-x + 7(-1 - 8x) = -349$

Week 7: Sept. 19 - Sept. 23

Date_____ Period____

Write each number correctly in scientific notation.

1) 0.868×10^{-2}

868

0.08×10^2

8

0.0228×10^1

$.228$

$0.58.8 \times 10^{-3}$

$.0.58$

After written correctly, find the product of the smallest value and largest value.

Solve the equation. Follow each step.

2) Scott was going to sell all of his stamp collection to buy a video game. After selling half of them he changed his mind and bought ten more. How many did he start with if he now has 22?

Define variable: 22

Equation: $40 - 20 + 2 = 22$

Answer: 24

Simplify each expression.

3) $-5(9 - 2b) - 7$

$-5 \times 74 - 7$

$52 + 10b$

4) $8 - 3(1 + 5r)$

$.583 \times 10^9$

5) $-3.4x + 3.5(1.3x + 0.4)$

3.45×10^3

6) $8.2(k - 5.5) + 3.2k$

$.82 \times 10^2$

Evaluate each using the values given.

7) $|z|(y + y)$; use $y = 6$, and $z = -5$

$1-5|(6 + 6$

5×12

60

8) $z - (zy + x + y)$; use $x = 4$, $y = -3$, and $z = 2$

$2 - 2 + 3 + 4 + 1 - 3$

$-8 + 4$

$2 - (-5)$

7

Solve each equation.

9) $-8(x - 5) = 88$

$x = -5$

10) $-x(7 - 1 - 8x) = -349$

$-x - 7 - 54x$ 340

$-57x - 7$ 7

$+7$ 342

$x = 6$ -57