MATH 7 NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_

QUIZ – UNIT ONE ‘SIMPLIFYING EXPRESSIONS’

**Directions: Use Order of Operations (PEMDAS) to solve each expression. Show ALL of you work for full credit.**

\_\_\_\_\_\_\_\_\_\_\_\_\_1) $16÷2∙$ 7 + 2

\_\_\_\_\_\_\_\_\_\_\_\_\_2) 2 + 3 $∙ $8 $÷$ 4

\_\_\_\_\_\_\_\_\_\_\_\_\_3) 13 – 22 + 7

\_\_\_\_\_\_\_\_\_\_\_\_\_4) (102 + 2) $÷$ 3 – 1

\_\_\_\_\_\_\_\_\_\_\_\_\_5) (24 + 24) $÷$ (30 – 22)

\_\_\_\_\_\_\_\_\_\_\_\_\_6) $25÷\left(12-7\right)+4^{2}$

**Directions:** **Simplify each expression to combine “like-terms”. Show ALL you work for full credit.**

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $-7+4a+3+a$

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $-8b+4b+\left(-6\right)+8$

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $10y+11x+9y+13x$

4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $2x+\left(-3\right)+\left(-7x\right)+12$

**Directions:** **Simplify each expression by applying the Distributive Property. Show ALL your work for full credit.**

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $-6\left(x+4\right)$

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $7(3a+\left(-5\right))$

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $4\left(2b+7\right)+(-8b)$

4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $3\left(4+6x\right)$

5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $-5\left(x+\left(-7\right)\right)$

6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $2\left(x+\left(-8\right)\right)$

7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $- \left(5+2x\right)$

8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ $2+4\left(3+x\right)+\left(-5x\right)$