

Name

Directions: Show your work for each question for credit

1. Simplify $(-2)^2 \cdot (-2)^{-8}$

Show your work

A) 4^{-6}

C) $(-2)^{-16}$

B) $\frac{1}{64}$

D) 64

2. Which phrase below *best* represents the following expression?

$4n + 17$

A 17 more than a number divided by 4

B 4 times the sum of a number and 17

C 17 more than 4 times a number

D 4 times a number

3. Which equation is true for all pairs of values for x and y given in the table?

Show your work

x	y
12	4
3	1
0	0
-6	-2

A $y = \frac{x}{3}$

B $-3y = x$

C $-x = \frac{y}{3}$

D $3x = y$



4. Solve the following equation for the value of x :

$$5x - 3 = 4(x + 2) + x$$

Show your work

- A** -8
- B** 3
- C** No Solution
- D** An infinite amount of solutions

5. Ms. Lembright ordered the types of muffins below for a class party.

- 12 blueberry muffins for \$7.20
- 8 chocolate muffins for \$4.40
- 6 raisin muffins for \$4.50

What type of muffin costs the **least**?

Show your work.

Answer _____ muffin