

DISTRIBUTING A NEGATIVE NUMBER

PART I: Each of the cards on the top row has the same simplified expression as one of the cards on the bottom row. Match the cards with equivalent expressions to complete the sentences 1-4.

A $-4(5x - 3) + 12$

B $-4(-6x + 4)$

C $10 - 2(4 + 12x)$

D $-2(-10x + 3)$

E $8x - 3(-4x + 2)$

F $-2(12x - 1)$

G $-4(5x - 6)$

H $8 - 8(-3x + 3)$

- Card A and Card _____ both simplify to _____.
- Card B and Card _____ both simplify to _____.
- Card C and Card _____ both simplify to _____.
- Card D and Card _____ both simplify to _____.

PART II: Two students simplified the expressions shown. Describe each student's mistake and give the correct simplified expression.

TYRELL

$$16 - 2(4 + 3x)$$

$$16 - 8 + 3x$$

$$3x + 8$$

a. Describe Tyrell's mistake.

b. What is the correct simplified expression?

AMELIA

$$10x - 3(4x + 1)$$

$$10x - 12x - 3$$

$$-5x$$

a. Describe Amelia's mistake.

b. What is the correct simplified expression?