

L2-4 Multiplying Integers

- coefficient - the integer or number in front of the variable
- simplify - make smaller, make more basic; not necessarily a traditional answer to the problem
- solve - find an answer to a problem
- evaluate - figure the problem out (solve)

Simplify Algebraic Expressions

$$8a(-5b).$$

$$(8 \cdot -5)(ab)$$

$$-40ab$$

This "answer" is simplified because we do not know the value of a & b .

① Mult. coefficients

② variables in abc order

Simplify $-6(2c)$.

$$-6(2c) = -12c$$

$$2(-5)(-3) = +30$$

$$2(-5)(-3)(-10) = -300$$

$$2(-5)(3) = -30$$

Simplify $5m(-7n)$.

Find the Rule

x	y
4	-32
0	0
-4	32

\underline{x} \underline{y}
 input output
 independent dependent
 var. var.

$$y = 6x$$

x	y
12	72
3	18
-2	-12

x	$y = -8x$	y
4	$4 \cdot -8$	-32
0	$0 \cdot -8$	0
-4	$-4 \cdot -8$	32