a.) $-40 + (-80) = -120$

$-40 + (-40) + (-40) = -120$

b.) $3(-40)$

$+ \cdot + = +$
$- \cdot - = +$
} same signs answer is positive

$+ \cdot - = -$
$- \cdot + = -$
} different signs answer is negative

Associative Prop.

$-4(12)-5$

$-48(-5)$

240

Commutative Prop.

$-4(12)-5)$

$20(12)$

240

$-7(9)(-6)$

$-63(-6)$

378

$-7(9)(-6)$

$42(9)$

378

$-7a(4b)$

-7, 4 } constant

a, b } variables

Like terms

parts of the algebra expression that are <u>exactly</u> alike:

- same variable
- both constants
- same exponent

you can then do any operation on these #s

$-7a(4b)$

$28ab$

$-3(6y)$

$-18y$

$-9x(3y)$

$-27xy$

Simplify

28. $3r(7s)(5t)$

$105rst$

$3a(4a)$

$12a^2$

$3a + 4a \quad a = 3$

$7a = 7(3) = 21$

$3(3) + 4(3)$

$9 + 12$

21

2-4 Multiplying Integers

#12-42 evens

and

#54