

Do pgs. 42-49 for warm-up
VP 67

2.2 Add Real Numbers

* Do activity on page 73. Make sure have alg tiles or make some

Rule:

$$6 + 10 = 16$$

$$-6 + (-10) = -16$$

$$8 + 7 = 15$$

$$-8 - 7 = -15$$

$$2 + 4 = 6$$

$$-2 + (-4) = -6$$

Same signs

Same signs

If #'s have same sign, add them

like they are positive & keep the sign

Rule:

$$-12 + 7 = -5$$

$$12 + (-7) = 5$$

$$-16 + 3 = -13$$

$$16 + (-3) = 13$$

$$-8 + 6 = -2$$

$$8 - 6 = 2$$

different signs

different signs

If #'s have different signs, take

larger - smaller & keep the sign

of the larger number.

Example

1) $-3 + 6$

2) $-4 + (-5)$

3) $8 + (-11)$

Properties of Addition

Commutative Property - Can switch order of #'s

ex. $-3 + 2$ same as $2 + (-3)$ ALGEBRA: $a + b = b + a$

Associative Property - Can change the grouping of #'s

ex. $(-3 + 2) + 1$ same as $-3 + (2 + 1)$ ALGEBRA: $(a + b) + c = a + (b + c)$

Identity Property - Sum of a # & 0 is the #

ex. $-5 + 0 = -5$

ALGEBRA: $a + 0 = 0 + a = a$

Inverse Property - Sum of a # & the opposite is 0.

ex. $-6 + 6 = 0$ or $6 + (-6) = 0$

ALGEBRA: $-a + a = a + (-a) = 0$

Commutative

Associative (group)

P77: 1, 2, 3-210d
24, 26-32
53, 55, 57