

INTEGERS INTERVENTION

Addition of Integers w/ same sign

$$3 + 8 = 11$$

$$-3 + (-8) = -11$$

- ① The sign of your answer is the same as the sign of the numbers you're adding
- ② Add the absolute value of the addends.

Addition of Integers w/ different sign

$$-8 + 5 = -3$$

$$\begin{array}{r} 1-1 \quad | \quad 5 \\ 8 \quad - \quad 5 = 3 \end{array}$$

$$12 + (-3) = 9$$

$$12 - 3 = 9$$

$$-15 + 14 = -1$$

$$-6 + 2 + (-10) =$$

$$\begin{array}{r} -4 + -10 = -14 \end{array}$$

- ① Find the integer w/ the greater absolute value
- That integer's sign is the sign of your answer
- ③ Find the difference of the absolute value of the two integers.

Subtracting Integers → turn into addition!

$$-5 - 8 =$$

$$-5 + -8 = -13$$

$$8 - 16 =$$

$$8 + -16 = -8$$

- ① Add the inverse

"change the sign, add a line"
of the 2nd → Mr. Williams

$$14 - (-6) =$$

$$14 + 6 = 20$$

$$-8 - (-12) =$$

$$-8 + 12 = 4$$

Multiplying & Dividing Integers

- $(+) \cdot \text{or} \div (+) = (+)$
- $(-) \cdot \text{or} \div (-) = (+)$ } Same signs means + answer
- $(+) \cdot \text{or} \div (-) = (-)$
- $(-) \cdot \text{or} \div (+) = (-)$ } Different signs means - answer

$$-4(6) = -24$$

$$-6(-10) = 60$$

$$-2(6)(-3) =$$

$$-12(-3) = 36$$

$$-2^3 = -2 \cdot -2 \cdot -2$$

$$4 \cdot -2 = -8$$

$$-3^2 = -3 \cdot -3 = 9$$

$$-100 \div 2 = -50$$

$$-40 \div -8 = 5$$

$$\frac{-6}{3} = -2$$

$$\frac{-20}{-4} = 5$$

Name: _____

Block: _____

All Operations with Integers (A)

Use an integer strategy to find each answer.

$8 + 10 =$

$10 + 9 =$

$2 - 5 =$

$7 + (-8) =$

$16 \div (-4) =$

$9 - (-11) =$

$7 + 6 =$

$8 \times (-10) =$

$4 - (-6) =$

$(-3) + 11 =$

$(-2) + 5 =$

$20 \div (-2) =$

$(-8) \times 4 =$

$(-9) \times 6 =$

$(-1) \times (-10) =$

$3 + (-11) =$

$1 \times (-7) =$

$1 - (-9) =$

$(-8) \times (-4) =$

$(-7) \times (-3) =$

$8 + (-2) =$

$35 \div 5 =$

$7 - 6 =$

$5 - (-3) =$

$(-7) - 7 =$

$9 - 8 =$

$3 - (-6) =$

$2 \times 8 =$

$4 - 10 =$

$(-11) + 4 =$

All Operations with Integers (B)

Use an integer strategy to find each answer.

$$(-7) \times (-6) =$$

$$(-5) - 3 =$$

$$6 + (-5) =$$

$$7 + (-10) =$$

$$5 - (-7) =$$

$$10 \div (-10) =$$

$$(-1) + (-5) =$$

$$(-15) + 10 =$$

$$12 + (-2) =$$

$$(-8) - 8 =$$

$$(-130) \div 13 =$$

$$3 + (-6) =$$

$$6 \times 12 =$$

$$(-5) + (-5) =$$

$$16 \div 4 =$$

$$10 + 12 =$$

$$9 \times (-8) =$$

$$(-1) + 1 =$$

$$(-12) + 11 =$$

$$9 - (-4) =$$

$$10 \div 2 =$$

$$6 \times (-12) =$$

$$14 + (-14) =$$

$$12 + (-9) =$$

$$8 \times (-3) =$$

$$121 \div (-11) =$$

$$9 + (-15) =$$

$$13 \div 13 =$$

$$(-8) - 6 =$$

$$11 + (-8) =$$