

## Practice

$(-91) - (-46) =$

$(+21) + (+40) =$

$(0) - (+18) =$

$(+28) + (+23) =$

$(-45) + (+23) =$

$(+8) + (+1) =$

$(-31) - (-4) =$

$(-24) - (-31) =$

$(+40) + (-26) =$

$(+43) - (+9) =$

$(+27) - (-13) =$

$(-10) + (+37) =$

$(+8) - (-9) =$

$(+38) - (+17) =$

$(-50) - (-48) =$

$31 - (-17) =$

$93 - 22 =$

$(-20) + 41 =$

$20 + 62 =$

$82 + 38 =$

$(-8) + (-23) =$

$87 - (-36) =$

$34 + 62 =$

$20 - (-41) =$

$3 + (-63) =$

$(-63) - (-79) =$

$55 + 44 =$

$(-87) - (-31) =$

$84 - (-37) =$

$(-43) - 71 =$

$(-25) - 88 =$

$(-56) + 91 =$

$(-39) + 47 =$

$(-3) + (-71) =$

$52 + 23 =$

$(-61) - 26 =$

$(-3) - 33 =$

$(-29) + (-87) =$

$(-2) - (-56) =$

$24 - 50 =$

$65 + 19 =$

$46 + 46 =$

## M8 2.1 Integers

Name \_\_\_\_\_  
Blk 2-4

## Types of Numerals/Numbers

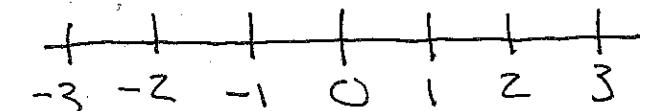
Natural Numbers: 1, 2, 3, ...

Whole Numbers: 0, 1, 2, 3, ...

Integers: -3, -2, -1, 0, 1, 2, 3

Rational: 1.5, 1.3̄, 4,  $\frac{1}{6}$ ,  $\frac{3}{2}$ ,  $\sqrt{49}$ , 8<sup>2</sup> terminating or repeating decimalsIrrational: non-terminating, non-repeating decimals  
 $\pi, \sqrt{2}$ 

Real Imaginary } later....

Integers :  $\oplus$  and  $\ominus$  numbers $\ominus$        $\oplus$  $\ominus$  Integers are Debt (owe) $\ominus$  sign always written $\oplus$  sign NOT always written, but sometimes $-16 - 4 = -20$  start with -16  
subtract +4 or add -4 ] same\* adding a  $\ominus$  # is the same as  
subtracting a  $\oplus$  # \*

$$Ex 1: 14 - (+3) = \textcircled{14} - \textcircled{3}$$

have owe

$+11$

$\textcircled{-} +11$

or  $14 + (-3)$

$+11$

$$(+14) - (+9) = +5$$

$$(+6) + (-13) =$$

$$(-4) + (+1) =$$

$$Ex 2: -16 + 4$$

$-12$

Started w/ debt  
got some money  
have less debt

$$(-6) + (+10) = 4$$

$$(+14) - (-4) =$$

$$(0) + (+15) =$$

$$Ex 3: -\textcircled{20} - \textcircled{11} = -20 - (+11) = -20 + (-11)$$

owe owe

$-31$

$-31$

$$(0) + (-9) = -9$$

$$(+1) + (+24) =$$

$$(+3) + (-14) =$$

$$(-24) + (+14) = -10$$

$$(+17) + (+14) =$$

$$(+23) + (+14) =$$

$$(+14) + (+9) = 23$$

$$(+21) + (+21) =$$

$$(-3) - (+4) =$$

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

$$(-22) + (+20) =$$

$$(+18) - (+21) =$$

$$(+6) + (-25) = -19$$

$$(+17) + (+6) =$$

$$(+24) + (+11) =$$

$$(+21) - (+3) = 18$$

$$(+35) - (+24) =$$

$$(-5) + (+8) =$$

$$(-4) - (-9) = 5$$

$$(+25) - (+2) =$$

$$(-22) + (-22) =$$

$$(-44) - (-19) = 25$$

$$(+3) - (+10) =$$

$$(+22) - (+4) =$$

$$(-91) - (-46) = -45$$

$$(+21) + (+40) =$$

$$(0) - (+18) =$$

$$(+28) + (+23) = 51$$

$$(-45) + (+23) =$$

$$(+8) + (+1) =$$

$$(-31) - (-4) = -27$$

$$(-24) - (-31) =$$

$$(+40) + (-26) =$$

$$(+43) - (+9) = +34$$

$$(+27) - (-13) =$$

$$(-10) + (+37) =$$

$$Ex 4: -6 - (-7)$$

\* subtracting debt is  $\ominus \ominus \oplus$

$$-6 + 7 = 1$$

\* subtracting debt is  $\ominus \ominus \oplus$

adding value \*

- owe 6

= removed 7 of debt  $-(-7)$

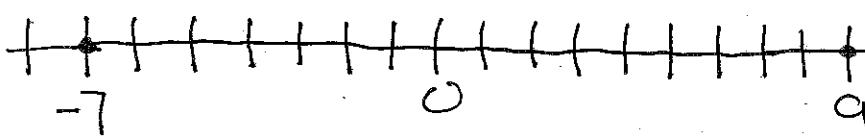
- now you have

$$Ex 5: 9 - 16 = 9 - (+16) = 9 + (-16)$$

$\ominus -7$

$\oplus -7$

adding debt  
is the  
same as  
removing  
value



Subtracting 16