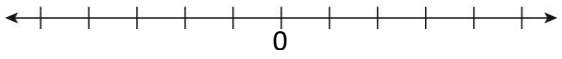
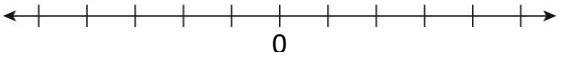
Adding Integers Note Page

Same Sign Both numbers are positive, or both numbers are negative	Different Signs One number is positive, one is negative
Ex. 8 + 5 or -7 + (-5)	Ex. -7 + 3 or 5 + (-2)
Number Lines: Show that 2 + 3 = 5 on a number line:  Show that -3 + -4 = -7 on a number line:  	**Number Lines:** Show that -2 + 6 = 4 on a number line:  Show that 5 + (-8) = -3 on a number line: 
Integer Chips: Show that 2 + 4 = 6 with chips: Show that -3 + (-1) = -4	**Integer Chips:** Show that 5 + (-4) = 1 with chips: Show that -6 + (2) = -3
The Rule: Add _____ _____ together and _____ the same sign.	**The Rule:** Subtract the _____ number from the _____ number and keep the sign of the _____ number.
Examples: 1) 4 + 3 = ___ 2) -4 + (-3) = ___ 3) -100 + (-200) = _____ 4) 25 + 40 = ___	**Examples:** 1) -8 + 5 = _____ 2) 8 + (-5) = _____ 3) 6 + (-4) = _____ 4) -6 + 4 = _____

The song (to the tune of Row, Row, Row Your Boat)
Same signs, add and keep
Different signs, subtract
Take the sign of the larger number,
Then you'll be exact.

Mixed Practice:	1) 3 + (-5) =	2) -2 + (-3) =	3) 7 + 1 =
4) -4 + (-2) =	5) -8 + (-1) =	6) -5 + 3 =	7) 20 + (-10) =
8) -15 + 5 =	9) -4 + (-5) =	10) -3 + 0 =	11) 5 + (-5) =
12) -5 + 8 =	13) -2 + 9 =	14) -5 + 5 =	15) -6 + (-6) =
16) -6 + 1 =	17) -3 + (-2) =	18) -2 + 2 =	19) 5 + 3 + (-2) =

Subtracting Integers Note Page

The Rule: Change the subtraction sign to an addition sign, and ALSO change the very next number's sign to the opposite sign. THEN, following the adding integers rules.

Simply put: Change it to "Adding the Opposite" or "Stay, Flip, Flip"

Proof that changing the subtraction sign to "Adding the Opposite" works:

What is 4 – 3? _____
Now compute 4 – 3 but change it to "Adding the Opposite": 4 – 3 will become _____
Now following the adding integers rules for 4 + (-3) = 1

Examples: -7 – 5 will become -7 + (-5) = -12 -3 – (-6) will become -3 + (+6) = 3

4 – 9 will become 4 + (-9)= -5 8 – (-4) will become 8 + (-4) = 4

Practice problems:

1) -4 – 6 becomes _____. The final answer is _____
2) 6 – 9 becomes _____. The final answer is _____
3) 5 – (-4) becomes _____. The final answer is _____
4) -2 – (-3) becomes _____. The final answer is _____.

More practice:

5) - 5 – 4 = ___ (Same signs add and keep the sign)

6) 3 – 8 = ___ (Different signs, subtract and keep the big number's sign)

7) -1 – (-5) = ___ (Different signs, subtract and keep the big number's sign)

8) 6 – (-2) = ___ (Same signs add and keep the sign)

9) -3 – 0 = ___ 10) -8 – 2= ___ 11) -4 – (-6) = ____ 12) -1 – 1 = ___

13) -5 – 2 = ___ 14) 7 – 2 = ___ 15) -2 – 6 = ___ 16) -5 – 5 = ___

17) -6 – 3 = ___ 18) -4 – (-6) = ___ 19) 0 – (-4) = ___ 20) 8 – (-2) = ___