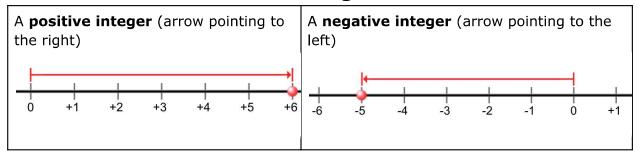
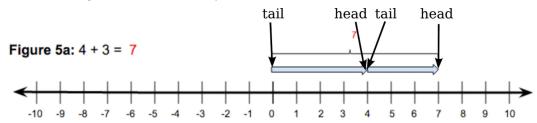
Addition and subtraction of integers

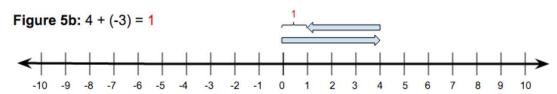


When adding integers, we just **line up their arrows** *head-to-tail* **along a number line.**

The following shows a sum of positive numbers.



The following shows a sum of a positive and a negative number. The arrows point in opposite directions, so **the answer is the difference of the lengths of the arrows**, and we find the sign by asking which arrow is longer, **the positive one or the negative one**?



- 1. Find the sum of +7 and -4.
- 2. Find the sum of -9 and +5.

3, 2+8

4.2+(-8)

5. -3 + 12

6. +6 - +9

7. -3 + -5

8.4 + -7

Name: _____ Date: _____ Block: ____

9.8 + 0 + -7 + -8

10. -9 + 8

11. 2 + -6 + -5 + 7

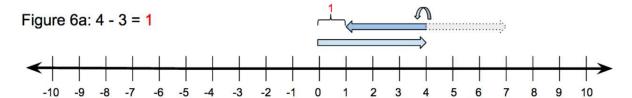
12. 1 + 5 + -3 + -5

13. -9 + 5 + -3 + 8

14.9 + -14 + 4 + -7

Subtraction

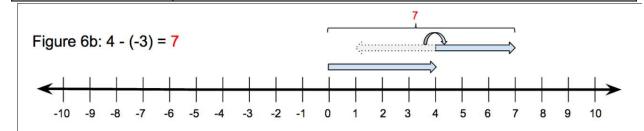
Positive arrows point to the right, but when we subtract a positive arrow, we move to the left. We are used to this because we are used to subtracting positive numbers.





Here is where things get a bit weird! Negative arrows point the left, but when we subtract them, we also move in the direction opposite to the arrow, so when subtracting a negative, we move to the right!! It's like we are adding a positive.

SUBTRACTING A NEGATIVE is equivalent to **ADDING A POSITIVE!**



$$21.3 + 2 + 2 - (-2)$$