

2.2 Adding Integers

Goals: Add numbers with the same signs

Add numbers with different signs

Same Signs:

- 1) Keep the sign _____
- 2) Add _____ the numbers.

Add.

Ex: $-3 + (-8)$

-11

Ex: $-17 + (-12)$

-29

Ex: $-6 + (-4)$

-10

Ex: $-9 + (-5)$

-14

Ex: $-2 + (-14)$

-16

Ex: $-12.5 + (-2.3)$

-14.8

Ex: $-3 + (-10)$

-13

Ex: $-17.5 + (-2.5)$

-20

Ex: $x + (-3)$ if $x = -22$

$-22 + (-3)$
 -25

Ex: $(-x) + (-13.4)$ if $x = 7.25$

$(-7.25) + (-13.4)$
 -20.65

Ex: $-|x| + (-21.3)$ if $x = -2.2$

$-|-2.2| + (-21.3)$
 $-2.2 + (-21.3)$
 -23.5

Different Signs:

- 1) Keep the sign of the number with the larger absolute value.
- 2) Subtract the numbers.

Ex: $-7 + 3$

-4

Ex: $-14 + 13$

-1

Ex: $-4 + 10$

6

Ex: $6 + (-9)$

-3

Ex: $14 + (-8)$

6

Ex: $44.2 + (-16.4)$

27.8

Ex: $x + (-12)$ when $x = 4.3$

**$4.3 + (-12)$
-7.7**

Ex: $-x + 37.65$ when $x = 22.71$

**$-22.71 + 37.65$
14.94**