

Integers

Integers are the set of whole numbers and their opposites.

Find the opposite of each integer:

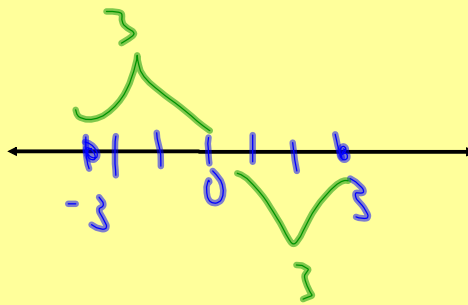
1. -4
4

2. 6
-6

3. -8
8

4. 0
0

Remember we can do this using number lines. Opposites are numbers that are the same distance from zero on different sides of a number line.



On Wednesday, the temperature increased 5° F and then decreased 5° F. Which integer describes the overall change in temperature?

$$+5 \quad -5$$

$$\quad \checkmark$$

$$\quad \quad 0$$

0, because the values are opposites.

Remember that certain situations can negate another. *→ opposite cancel each other out*

- Lose 3 yards ----- Gain 3 yards
 - Deposit \$25 ----- Withdraw \$25
 - Drops 300 ft ----- Rises 300 ft
- put in →* *take out →*

Adding Integers

When adding integers, remember the following rules:

- If signs are the **same**, **add** and keep the sign.
- If signs are **different**, **subtract** absolute values and keep the sign of the bigger number.

$$1. \quad 4 + -7 = -3$$

$$2. \quad -10 + -34 = -44$$

$$3. \quad 7 + 15 = 22$$

$$4. \quad -9 + 5 = -4$$

A football team gains four yards on a play and then loses seven yards on the next play. What is the overall gain or loss on the two plays?

$$4 + -7 \quad \text{loss of} \\ -3 \quad \quad \quad 3 \text{ yards}$$

The TLC decides to hold a bake sale to raise money for Africa Mercy. They withdraw \$50 from their account to pay for ingredients. The deposit they made back into the account with Mrs. Mounce was \$140. What was the overall increase or decrease in the TLC account?

$$-50 + 140 \\ \textcircled{90}$$

HW: WB p. 51 even

Adding Integers (A)

Use an integer strategy to find each answer.

$(-13) + (+1) =$

$(+13) + (-17) =$

$(+6) + (+8) =$

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

$(-17) + (+13) =$

$(+15) + (+5) =$

$(+24) + (+21) =$

$(-7) + (-1) =$

$(-25) + (-10) =$

$(-25) + (-20) =$

$(-23) + (-10) =$

$(+16) + (+10) =$

$(+23) + (+2) =$

$(+12) + (-18) =$

$(-9) + (+18) =$

$(-10) + (+20) =$

$(-18) + (+2) =$

$(+10) + (-20) =$

$(+2) + (+9) =$

$(-23) + (+11) =$

$(+10) + (+14) =$

$(+4) + (+20) =$

$(-3) + (-7) =$

$(-22) + (-8) =$

$(-9) + (+7) =$

$(+16) + (-3) =$

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

$(+9) + (+20) =$

$(-15) + (+8) =$

$(-18) + (-23) =$