## **1.3 SUBTRACTING INTEGERS**



## Tell whether the sum is positive, negative, or zero without adding. Explain your reasoning.

1. -8 + 20

2. 30 + (-30)

3. -10 + (-18)

### **Adding Integers Rules**

SAME SIGN •Ignore the signs •Add numbers •Put sign back

#### **DIFFERENT SIGNS**

- Ignore the signs
- Subtract
- Put sign back of number that "looks" the biggest

5 + 3 =

-4 + (-6) =

-13 + (-9) =

-5 + 3 =

-4 + 6 =

-13 + 9 =

# Seeing how subtraction is related to addition...

#### Subtraction

- 3 3 =
- 3 2 =
- 3 1 =
- 3 0 =
- 3 -1 =
- 3 -2 =
- 3 -3 =

- Addition
- 3 + -3 =
- 3 + -2 =
- 3 + -1 =
- 3 + 0 =
- 3 + 1 =
- 3 + 2 =
- 3 + 3 =

# Subtraction is the same as adding the opposite

- **1. Change the minus sign to addition**
- **2. Change the second number into the opposite**
- 3. Do the problem like a regular addition problem
  - 5-7 3-(-7)-3-6 -5-(-9)



1) -7-2

3) 8-15

#### 2) -5-(-11)

4) 4 - (-3)



5) 8-3

#### 7) -12 - (-12)

#### 6) -5-(-11) 8) 9-(-8)



The highest elevation in Mexico is 5700 meters, on Pico de Orizaba. The lowest elevation in Mexico is -10 meters, in Laguna Salada. What is the difference in elevations in Mexico?