Cosmo School

Chapter-3
Topic- Integers
Class-six
Subject: Mathematics
Date `12/08/2020
Work Sheet

The Rules

It can all be put into **two rules**:

Rule			Example
+(+)	Two like signs become a **positive sign**		3+(+2) = 3 **+** 2 = 5
− (−)			6−(−3) = 6 **+** 3 = 9
+(−)	Two unlike signs become a **negative sign**		7+(−2) = 7 **−** 2 = 5
−(+)			8−(+2) = 8 **−** 2 = 6

They are "like signs" when they are like each other (in other words: the same)

Another Common Sense Explanation:

A friend is +, an enemy is −

$+ + \Rightarrow +$ a friend of a friend is my friend

$+ - \Rightarrow -$ a friend of an enemy is my enemy

$- + \Rightarrow -$ an enemy of a friend is my enemy

$- - \Rightarrow +$ an enemy of an enemy is my friend

Practice Work at Home

1. **Find the sum of (Q-3.E.x-3.2)**
 (a) 137 and − 354
(b) − 52 and 52
(c) − 312, 39 and 192
(d) − 50, − 200 and 300
2. **Find the value of (Q-4.E.x-3.2)**

(a) (−7) − 8 − (−25)
(b) (−13) + 32 − 8 − 1

(c) (–7) + (–8) + (–90)
(d) 50 – (–40) – (–2)
(e) (–7) + (–9) + 4 + 16

(f) (37) + (–2) + (–65) + (–8)

3. Fill in the blanks with >, < or = sign. (Q-11.E.x-3.3)

(a) (–3) + (–6) _____ (–3) – (–6)

(b) (–21) – (–10) _____ (–31) + (–11)

(c) 45 – (– 11) _____ 57 + (– 4)

(d) (–25) – (–42) _____ (– 42) – (–25)

4. Fill in the blanks. **(Q-12.E.x-3.3)**

(a) (–8) + _____ = 0

(b) 13 + _____ = 0

(c) 12 + (–12) = ___

(d) (–4) + _____ = –12

(e) ____ – 15 = – 10