

Ex : Divide -11 by 3 ?

Note: that the remainder cannot be negative.

$$-11 = 3 * (-4) + 1.$$

- -11 is the dividend,
- 3 is the divisor,
- -4 is called the quotient, and
- 1 is called the remainder.

$$-11/3 = -3.6: \text{ floor } (-3.6) = -4$$

$$-11 + 3 = -8 + 3 = -5 + 3 = -2 + 3 = 1$$

Ex : Divide -17 by 5?

Note: that the remainder cannot be negative.

$$-17 = 5 * (-4) + 3.$$

- -17 is the dividend,
- 5 is the divisor,
- -4 is called the quotient, and
- 3 is called the remainder.

$$-17/5 = -3.4: \text{ floor } (-3.4) = -4$$

$$-17 + 5 = -12 + 5 = -7 + 5 = -2 + 5 = 3$$