

Objective: To add and subtract integers using 3 rules and a number line.

1/14/20

Adding and Subtracting
Integers with same sign.

Rule:

Addition: Add Value together
attach sign to the
answer

Example $3+2=5$
 $(-3)+(-2)=-5$

Subtraction: Convert to addition
by attaching the negative
to the second number.

$$5-2=3$$

$$2-5 \Rightarrow 2+(-5)$$

Adding and Subtracting Integers
with different signs.

Rule:

Addition: Take the difference of
values and keep the sign of
the largest.

$$2+(-5)=-3$$

Subtraction: convert to addition
by attaching the negative

$$-2-8 = (-2)+(-8) = -10$$

$$3-(-5)$$

Adding and
Subtracting
Integers.

Adding and Subtracting
Integers when two negatives are
side by side.

Rule: Keep - change - change

- Keep the 1st number
- change subtraction to addition
- Change negative to positive.

$$3+(+5)=8$$

$$-5+(+8)=-5+8$$

Mixed Problems

Rule: Always move left to right.

$$1) -10-5+7-3 =$$

$$-15+7-3 =$$

$$-8+(+3) = -11$$

$$2) -4+(+3)+2-1 = 0$$

$$-1+2-1$$

$$3) 7-10-(-2)+5 =$$

$$7+(+10)$$

$$-3+(+2)+5 =$$

$$-1+5 = 4$$