

Integer Addition ^{Key}

To add integers you simply follow the rules below...

If the signs are the same
add and Keep the sign

$$-7 + -3 = \underline{-10}$$

$$7 + 3 = \underline{10}$$

If the signs are different
subtract and Keep the sign
Of the higher absolute value...

$$-7 + 3 = \underline{-4}$$

$$7 + -3 = \underline{4}$$

Exercises...

$$\checkmark 8 + -11 = \underline{-3}$$

$$\checkmark -3 + -20 = \underline{-23}$$

$$\checkmark -7 + -13 = \underline{-20}$$

$$\checkmark 9 + -1 = \underline{8}$$

$$\checkmark -8 + -6 = \underline{-14}$$

$$\checkmark -4 + -6 + 18 = \underline{8}$$

$$\checkmark 13 + -15 + 15 + -13 = \underline{0}$$

Applications...

1. A store's expenses and sales for a three-month period are shown in the table below.

Month	Expenses	Sales
September	\$125.00	\$47.00
October	\$0.00	\$65.00
November	\$57.00	\$28.00

LOSS PROFIT

(-) (+)

Based on the data in the table, what is the loss or profit for the store for the three-month period?

- a. \$182.00 loss
- b. \$42.00 loss
- c. \$15.00 profit
- d. \$140.00 profit

$$125 + 0 + 57 = \$182 \text{ in expenses}$$

$$47 + 65 + 28 = \$140 \text{ in sales}$$

$$-182 + 140 = -42$$

2. On May 5, the balance in Laura's checking account was \$187.50. On May 6, she wrote a check for \$130.25. On May 8, she deposited \$92.85. What was her balance on May 8?

$$187.50 + -130.25 + 92.85 = \boxed{\$150.10}$$

3. Another store's expenses and sales for a four-month period are shown in the table below.

Month	Expenses	Sales
June	\$135.00	\$52.00
July	\$43.00	\$85.00
August	\$154.00	\$64.00
September	\$203.00	\$250.00

Based on the data in the table, what is the loss or profit for the store for the four-month period?

$$135 + 43 + 154 + 203 = 535 \text{ expenses}$$

$$52 + 85 + 64 + 250 = 451 \text{ sales}$$

$$-535 + 451 = -84$$

\$84 loss