

1/8

Spent = -

3.2: Cafeteria Food Debt

Debt = -
Deposit = +

Withdrawal = -

At the beginning of the month Kiran had \$24 in his school cafeteria account. Use a variable to represent the unknown quantity in each transaction below and write an equation to represent it. Then, represent each transaction on a number line. What is the unknown quantity in each case?

1. In the first week he spent \$16 on lunches. How much was in his account then?

$$24 + (-16) = x$$

$$x = 8$$

2. Then he deposited some more money and his account balance was \$28. How much did he deposit?

$$8 + x = 28$$

3. Then he spent \$34 on lunches the next week. How much was in his account then?

$$28 - 34 = x$$

$$x = -6$$

4. Then he deposited enough money to pay off his debt to the cafeteria. How much did he deposit?

$$-6 + x = 0$$

$$x = 6$$

5. Explain why it makes sense to use a negative number to represent Kiran's account balance when he owes money.

3.3: Bank Statement

Here is a bank statement.



Responsible Bank
210 2nd Street
Anytown, MH 06930

Checking Account Statement
Page: 1 of 1

Andre Person
1729 Euclid Ave
Anytown, MH 06930

Statement Period	Account No.
2017-10-01 to 2017-11-01	1120635978

Date	Description	Withdrawals	Deposits	Balance
2017-10-03	Previous Balance			39.87
2017-10-05	Check Number 256	28.50		11.37
2017-10-06	ATM Deposit - Cash		45.00	56.37
2017-10-10	Wire Transfer	37.91		18.46
2017-10-17	Point of Sale - Grocery Store	16.43		2.03
2017-10-25	Funds Transfer from Savings		50.00	52.03
2017-10-28	Check Number 257	42.00		10.03
2017-10-29	Online Payment - Phone Services	72.50		-62.47

1. If we put withdrawals and deposits in the same column, how can they be represented?

use + and - signs
 ↓ ↓
 Deposits Withdrawals

2. Andre withdraws \$40 to buy a music player. What is his new balance?

$$-62.47 - 40 = -102.47$$

3. If Andre deposits \$100 in this account, will he still be in debt? How do you know?

$$-102.47 + 100 = \$2.47$$