

**LESSON  
4.1**

# Deposits

**Vocab:**

Deposit - putting money in your account.  
(cash, check, direct deposit...)

Direct Deposit - employer puts your paycheck  
in your account.

ATM - Auto-Teller machine → deposits/withdraws on the go.  
(Fees may apply)

PIN - Personal Identification Number → ATM/Debit card

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## EXAMPLE 1

Manuel Romeo is making a deposit to his checking account. He has checks for \$435.20, \$271.19, and \$327.96. His cash consists of 15 one-dollar bills, 7 five-dollar bills, 3 ten-dollar bills, 24 quarters, 5 dimes, 15 nickels, and 14 pennies. He also withdraws \$75.00 in cash. What is his total deposit?

$$\text{checks} \rightarrow 435.20 + 271.19 + 327.96 = \$1034.35$$

$$\text{cash} \rightarrow 15(1) + 7(5) + 3(10) + 24(0.25) + 5(0.10) + 15(0.05) + 14(0.01) = \$87.39$$

$$\text{withdrawals} \rightarrow -75$$

$$\text{total} \rightarrow \boxed{\$1046.74}$$


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Find the total deposit. Check your answers in the back of the book.

1. Emily Anderson's deposit includes two checks: \$231.09 and \$987.67; cash: 9 one-dollar bills, 9 five-dollar bills, 8 ten-dollar bills, 14 quarters, 25 dimes, 18 nickels, and 64 pennies. She received \$40.00 cash from the total amount.

$$\text{checks} \rightarrow 231.09 + 987.67 = \$1218.76$$

$$\begin{aligned} \text{cash} \rightarrow & 9(1) + 9(5) + 8(10) + 14(0.25) + 25(0.10) \\ & + 18(0.05) + 64(0.01) = \$141.54 \end{aligned}$$

$$\text{withdraw} \rightarrow -\$40$$

$$\$1320.30$$

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Find the total deposit. Check your answers in the back of the book.

2. Jacob Thomas had a deposit of two checks: \$341.79 and \$17.96;  
cash: 35 one-dollar bills, 17 five-dollar bills, 44 ten-dollar bills,  
54 quarters, 36 dimes, 32 nickels, and 21 pennies.

$$\text{check} \rightarrow 341.79 + 17.96 = \$359.75$$

$$\begin{aligned} \text{cash} \rightarrow & 35(1) + 17(5) + 44(10) + 54(0.25) + 36(0.10) \\ & + 32(0.05) + 21(0.01) = \$578.91 \end{aligned}$$

$$\text{withdraw} \rightarrow \$0$$

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$$\boxed{\$938.66}$$

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**EXAMPLE 2** Algebra

Hannah Stewart makes a deposit at an ATM and walks away with the \$100 in cash she received and the receipt for the \$986 total deposit she made. She remembers that the checks deposited totaled twice the amount of currency she had deposited. She did not deposit any coins. What amount in currency did she deposit? What amount in checks did she deposit?

$$\text{total} = \text{cash} + \text{checks} - \text{withdrawals}$$

$$986 = x + 2x - 100$$

$$1086 = x + 2x$$

$$\frac{1086}{3} = \frac{3x}{3}$$

$$x = \$362 \text{ in cash}$$

$$2(362) = 724 \text{ in checks}$$

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Complete these problems. Check your answers in the back of the book.

3. Joshua Quick made a deposit to his checking account and received \$50 in cash. His deposit slip shows a total deposit of \$90. If Joshua deposited checks worth six times the value of the coins he deposited, how much did he deposit in (a) coins and (b) checks?

$$\text{total} = \text{cash} + \text{check} - \text{with draw}$$

$$90 = x + 6x - 50$$

$$90 = 7x - 50$$

$$\frac{140}{7} = \frac{7x}{7}$$

$$x = 20 \text{ in coins}$$

$$6(20) = 120 \text{ in checks}$$

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Complete these problems. Check your answers in the back of the book.

4. Larry McCoy deposited three checks to his checking account. He remembers that one of the checks was twice the amount of the smallest check and the largest check was equal in amount to the sum of the other two. If Larry received \$50 in cash and had a total deposit of \$355, what was the amount of each of the three checks?

$$\text{total} = \text{cash} + \text{check} - \text{withdraw}$$

$$355 = 0 + a + b + c - 50$$

$$355 = 2b + b + 3b - 50$$

$$355 = 6b - 50$$

$$405 = 6b$$

$$b = \$67.50$$

$$a = 2b$$

$$c = a + b = 2b + b = 3b$$

$$2(67.50) = \$135$$

$$135 + 67.50 = \$202.50$$

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Find the total deposit for Problems 5 through 19.

|    | Currency |       |      | Coins        |          |       |         | Checks | Total    |         |
|----|----------|-------|------|--------------|----------|-------|---------|--------|----------|---------|
|    | Tens     | Fives | Ones | Half Dollars | Quarters | Dimes | Nickels |        |          | Pennies |
| 5. | 12       | 11    | 8    | 11           | 18       |       |         |        | \$ 96.23 | \$      |

$12(10) + 11(5) \dots$   
 $\downarrow$   
 $11(0.50)$