# Financial Math: Banking Services

December 2<sup>nd</sup> - 6<sup>th</sup>, 2019





# Compare Checking Accounts

#### location

branch offices; hours of operation; availability of ATMs

#### fees

monthly fees; per-check fees; printing of checks; balance inquiry fees; ATM fees

#### other charges

overdraft charge; stop-payment fees; certified check fees; fee charged for falling below necessary balance

#### interest

rate earned; minimum deposit to earn interest; compounding method

#### restrictions

minimum balance; deposit insurance; holding period for deposited checks

#### special features

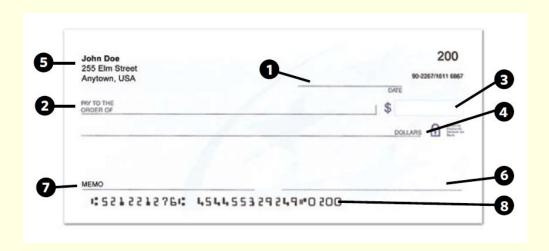
mobile banking services; direct deposit; automatic payments; overdraft protection; online banking; discounts or free checking for students, seniors, or employees of certain companies



# Opening a Checking Account

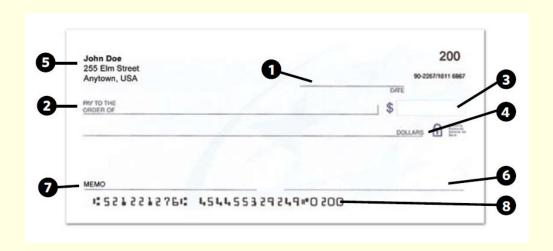
		ACCOUNT NUMBER			
		DATE			
SIGNATURE AUTHORIZATION CARD					
NAME		TYPE OF ACCOUN			
ADDRESS		Individual			
		☐ Joint			
		Business			
PHONE —— SOCIAL SECURI	ГҮ NO.	☐ ☐ ☐ ☐ ☐ ☐ Partnership			
		TO RECOGNIZE ANY* OF THE SIGNATURES			
		MENT OF FUNDS OR THE TRANSACTION OF ANY IT IS AGREED THAT ALL TRANSACTIONS			
		DEPOSITOR SHALL BE GOVERNED BY THE			
CONTACT PRINT	ED ON THE REV	VERSE SIDE OF THIS CARD.			





- 1. Date Enter the date on which you are writing the check.
- **2. Payee** Enter the name of the person or the company you are going to give the check to.
- **3. Amount of check in numerals** Enter the amount of the check, in numbers. Don't leave any space between the pre-printed dollar symbol (\$) and the numbers indicating the amount of the check; there should be no room for someone to add in extra numbers.
- **4. Amount of check in words** Enter the amount of the check in words. Start writing at the far left side of the line. Follow the dollar amount by the word "and," then write the amount of cents over the number 100. Draw a line from the end of the 100 to the end of the line.





- **5. Name** Your personal information is printed here. Never list your Social Security number on your printed check.
- **6. Signature** Sign your check exactly the way you signed your name on the signature card you filled out when you opened your account.
- **7. Memo** Use this space to note why you wrote the check. If you are paying a bill, this is a good place to put information requested by the company.
- **8. Identification numbers** These numbers are used to identify the bank, your account number, and the check number. They are printed in a special magnetic ink that machines can read.



# Endorsing a Check

#### blank endorsement

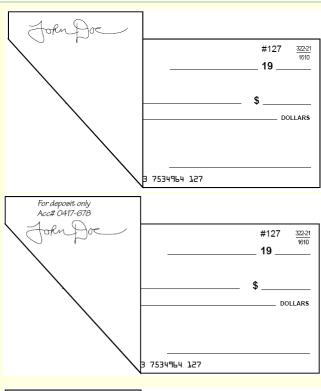
Anyone can cash check

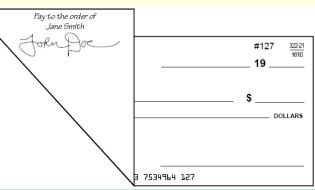
#### restrictive endorsement

More secure than blank endorsement

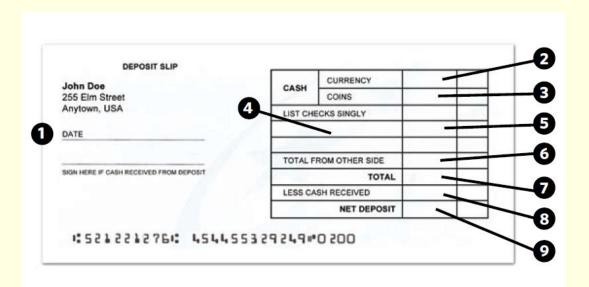
### special (or full) endorsement

Transfer check to another party







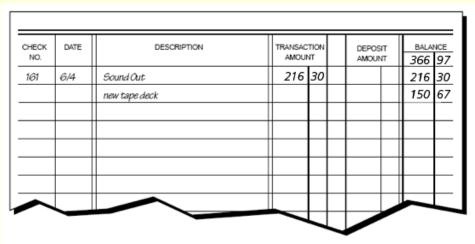


- **1.** Write the date of the deposit in this field.
- **2.** If you are depositing currency (paper bills), write the total amount here.
- **3.** If you are depositing coins, write the total amount here.
- **4.** If you are depositing a check, write the bank transit number here, which is the top portion of the two-part number printed in the upper corner of the check.
- **5.** Write the amount of the check here.

- **6.** If you are depositing more checks than can be listed on the front, continue to list them on the back, and write the total amount of the checks on back here.
- **7.** Write the total amount you are depositing here.
- **8.** If you are making a deposit inside a bank with a teller and you want to receive cash back from your deposit, write the amount you want in this field.
- **9.** Write the total amount (less cash back) of your deposit in this field.



## (a) Keeping a Running Balance: Check Transaction



## (b) Keeping a Running Balance: Check Cards

CHECK NO.	DATE	DESCRIPTION		TRANSACTION AMOUNT			366 97	
161	6/4	Sound Out	216	30		216	30	
		new tape deck				150	67	
ATM 6	6/18	withdrawal	35	00		35	00	
		spending money				115	67	
ChkCrd	6/18	check card	55	00		55	00	
		Foodland groceries				60	67	
				$\vdash$			$\vdash$	



# Reconciling a Checking Account

**step 1:** Obtain the current balance from your bank statement.

**step 2:** Add any deposits that you have recorded in your check register or spreadsheet but that are not on this statement.

**step 3:** Subtract any outstanding checks (checks you have written but that have not yet cleared the banking system).

**step 4:** Compare the result with the current balance in your spreadsheet.

#### Note:

The balance in your spreadsheet should be adjusted to include: (a) deductions for service fees or other charges; (b) additions for direct deposits and interest earned.



# Reading a Bank Statement

CHECKING ACCOUNT 0471-678		Previous Statement Balance On 6, Total of 3 Deposits For Total of 10 Withdrawals For	\$612.04 \$3,421.18 \$1,754.59						
		New Balance			\$2,278.63				
TRANSACTION HISTORY   CHECKS & OTHER DEBITS									
DATE PAID	CHECK #	DESCRIPTION	Deposits/Credits	Withdrawls/Debits	Ending Daily Balance				
6/4	161	DESCRIPTION	Deposits/Credits	\$216.30	\$395.74				
6/5	164			\$26.31	\$369.43				
6/9	104	Withdrawal #29848 at ATM		\$200.00	\$169.43				
6/14	165	Withdrawai #20040 at ATW		\$10.00	\$159.43				
6/15		Mobile Deposit	\$1,235.18	4.0.00	\$1,394.61				
6/18		DebitCrd	Ţ., <u></u>	\$55.00	\$1,339.61				
6/18		Withdrawal #00281 at ATM #423A		\$35.00	\$1,304.61				
6/19		Transfer from 4039-557 at ATM #423C	\$1,200.00		\$2.504.61				
6/24	162			\$82.87	\$2,421.74				
6/26	163			\$1,000.00	\$1,421.74				
6/26		DebitCrd		\$54.11	\$1,367.63				
6/27		Withdrawal #08744 at ATM #430E		\$20.00	\$1,347.63				
6/27	166	Lawn Wranglers		\$55.00	\$1,292.63				
6/30		ACH Deposit	\$986.00		\$2,278.63				
			\$3,421.18	\$1,754.59	\$2,278.63				



# **Electronic Banking Services**

**direct deposit...** earnings (or government payments) automatically deposited into bank accounts, saving time, effort, and money.

**automatic payments...** utility companies, loan payments, and other businesses use an automatic payment system with bills paid through direct withdrawal from a bank account.

**automatic teller machines...** allow customers to obtain cash and conduct banking transactions; some ATMs sell bus passes, postage stamps, gift certificates, and mutual funds.

**point-of-sale transactions...** acceptance of ATM/debit card at retail stores and restaurants for payment of goods and services.

**stored-value cards...** prepaid cards for telephone service, transit fares, highway tolls, laundry service, library fees, and school lunches.

**electronic cash...** companies are developing electronic replicas of all existing payment systems—cash, check, credit cards, and coins.

**online banking...** banking through online services. Bank websites allow customers to check balances, pay bills, transfer funds, compare savings plans, and apply for loans online.

**mobile banking...** 24/7 account access, cashless payments, mobile account alerts, check deposit, fund transfers, bill pay.



### Cashless Transactions

**cashless transactions,** include those made via digital wallets, payment-enabled phone, smart card, wearable like a smart watch and online payment systems for transactions. They serve as an electronic alternative to checks and cash.

- convenient, safe and fast way to pay
- you tap your card or device at a checkout terminal, your card is scanned and you
  get confirmation the transaction is complete via a beep, checkmark or green light
- more and more stores are beginning to accept cashless forms of payment
- smart technology and its uses for banking are constantly expanding

