

Name: _____

Date: _____

Practice: Interpreting Complicated Expressions—Bank Statements and Savings Accounts

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Use the given information to complete problems 1 and 2.

Callie's balance in her checking account on June 5 was \$1,200. She recorded the following transactions in her checkbook for the rest of the month.

Check #	Date	Description	Amount (\$)
1115	6/6	Plumbing emergency	-790
—	6/8	Snacks-to-go	-12
—	6/9	Gas	-38
—	6/15	Deposit	520
1116	6/22	Electric bill	-45
—	6/23	ATM withdrawal	-60
—	6/25	Groceries	-100
—	6/29	Deposit	520

1. Find the value of all deposits. Then find the value of all withdrawals.
2. What is the ending balance?

Use what you know about interpreting complicated expressions to complete each problem.

3. You are helping your parents make an important investment decision. Your parents have to decide between two investment accounts for the first year of your college expenses. The first account offers 5.5% invested annually. The second account offers 5.59% invested semi-annually. The third option offers 5.5% simple interest. Your parents plan to invest \$5,000 for 5 years. Which account offers the most return on your investment?

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4. Diana is saving money to start her own hair salon. She has \$2,000 that she wants to invest for the next 4 years. Bank 1 offers 1.5% interest compounded annually. Bank 2 offers 1.45% compounded monthly. Which bank is the best choice for Diana if she wants to choose the savings account that offers the most return for her money?

5. Sydney is investing \$1,000 in a savings account that offers 4.5% interest compounded semi-annually. How much interest will Sydney make after 1 year?

6. Kelly has two savings accounts. She wants to consolidate her savings into one account. Bank 1 offers 2.3% interest, compounded semi-annually. Bank 2 offers 2.2% compounded monthly. If Kelly puts \$5,550 into the savings account for 5 years, which account would offer the most interest?

7. Jarrett won \$550 as a prize for a speech contest. Jarrett makes a wise decision to invest the funds in a savings account for college. He deposits the money into an account that offers 3.5% interest compounded quarterly. How much money will Jarrett have after 4 years?

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Use the given information to complete problems 8–10.

Zoe is choosing between the following options for a savings account. Zoe intends to deposit \$12,000.

- **Option 1:** 1.2% APR interest, compounded monthly; \$20 annual fee
- **Option 2:** 0.3% APR interest, compounded quarterly; no annual fee

8. Find an expression to model each option.

9. Find her balance after 1 year for each option.

10. Which option should she choose? Justify your answer.