

1-4 • Guided Problem Solving

GPS Exercise 65

Suppose you overdraw your bank account. You have a balance of $-\$34$. You then deposit checks for $\$17$ and $\$49$. At the same time the bank charges you a $\$25$ fee for overdrawing your account. What is your balance?

Read and Understand

1. What is the problem asking you to do? _____

2. What is the rule for adding two numbers with different signs? _____

Plan and Solve

3. Write and evaluate an expression for the sum of the two deposits. _____
4. How do you express “a charge of $\$25$ ” as an integral? _____
5. Write and evaluate an expression for the sum of the two deposits and the bank fee. _____

6. Write and evaluate an expression for the sum of the two deposits, the bank fee, and the starting balance. _____
7. What is your balance? _____

Look Back and Check

8. Check your answer by adding the changes to your account in a different order. Add the starting balance to the first deposit, then add the second deposit, and lastly, add the bank fee.

Solve Another Problem

9. Now you deposit a check for $\$142$, withdraw $\$20$ in cash, and write a check for $\$16$. What is your balance? _____

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