

### Explore Activity:

1. Sandy has \$200 in her bank account.
  - a. If she writes 6 checks for exactly \$19.98, what expression describes the change in her bank account?

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- b. How much money did she write in checks?

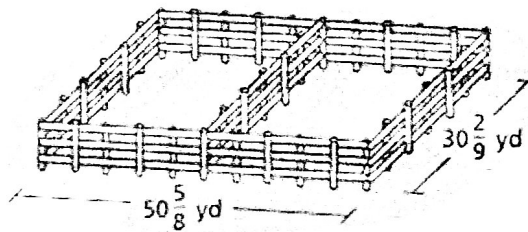
Solution: \_\_\_\_\_

- c. What is her account balance after the checks are cashed?

Solution: \_\_\_\_\_

### Independent Practice

A farmer needs to enclose two adjacent rectangular pastures. How much fencing does the farmer need?



Solution: \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Mr. Williams

Class \_\_\_\_\_

## Challenge Yourself

### Matching

Simplify the expressions on the left by using the Distributive Property and combining like terms. Then, match it to an equal expression on the right by connecting the two with a line.

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|--|-----------------------|
| 1. $6x + 2x$                                     | a. $8x$               |
| 2. $14x - 12 - x - 3$                            | b. $\frac{1}{2}x + 1$ |
| 3. $-5x + 14 - x - 2$                            | c. $13x - 15$         |
| 4. $-3 - 5x - 3x + 11x + 3$                      | d. $2x + 11$          |
| 5. $-2(-5 - x) + x - x + 1$                      | e. $2x$               |
| 6. $\frac{1}{2}(12) + 4x - (x - 1)$              | f. $6x^2 + x - 27$    |
| 7. $6(x^2 - 2) + 1 - 16 + x$                     | g. $3x$               |
| 8. $4\left(\frac{1}{2}x + 4\right) + 1 - 16 + x$ | h. $3x + 1$           |
| 9. $5(x^2 + x)$                                  | i. $3x + 7$           |
| 10. $x + \left(1 - \frac{1}{2}x\right)$          | j. $-6x + 12$         |
| 11. $x^3 + x^2 + x + x - x^2 - x^3$              | k. $5x^2 + 5x$        |