| | **Topic/Objective:** 1.2 AGS 2 | **Name:** |
|---|---|---|
| | Review Distribution, Combining Like Terms, Area/Perimeter, and GCF | **Period:** |
| | | **Date:** |

**Essential Question:** What are the steps to finding the GCF when there are variables in the terms?

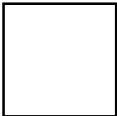| Questions: | Simplify: |
|---|---|
| | 1. $3x(2x + 4) + 4(x + 6) =$ |
| | 2. $x(5x - 3) - 2(3x + 4) =$ |
| | 3. $4x(3x - 6) + 3(5x - 4) =$ |
| | 4. $2x(6x - 5) - 6(2x - 1) =$ |
| | 5. $5x(x + 2) - 7(2x - 6) =$ |
| | **How do you find the perimeter of a rectangle?** |
| | **How do you find the area of a rectangle?** |
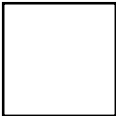
**Write an expression for the perimeter and area of each:**

6.　　　4x cm

4 cm ▢　　perimeter =
　　　　　　area =

7.　　　(x + 6) cm

(x + 6) cm ▢　perimeter =
　　　　　　　area =

8.　　　　(x + 8) ft

(x + 2) ft ▭　perimeter =
　　　　　　　area =

9.　　　　(x + 4) m

(x – 2) m ▭　perimeter =
　　　　　　　area =

**Find the GCF for each:**

10. 36 and 54

11. 24ab and 16ac

12. $16x^2y$ and $12xy^2$

13. $4x^2y^2z$, $8xy^2z$, and $6xyz^2$

14. 10mn, 5mnp, and 2np

Summary: What are the steps to finding the GCF when there are variables in the terms?