Algebra 1 6.3
Solve systems of equations by elimination
system of equations
solve
substitution method
zero pair
additive inverse
addition property of equality
whiteboards

$x = 1^{st}$ 6 $y = 2^{nd}$ 18

5. **CCSS REASONING** The sum of two numbers is 24. Five times the first number minus the second number is 12. What are the two numbers?

$x + y = 24$

$5x - y = 12$

$6x = 36$

$\frac{6x}{6} = \frac{36}{6}$

$x = 6$

$6 + y = 24$

$-6 \qquad -6$

$y = 18$

Numbers are 6 & 18

$5 \cdot 6 - 18 = 12$

$30 - 18 = 12$

Whiteboards

2. $8x + 5y = 38$

$-8x + 2y = 4$

1. $5m - p = 7$
$7m - p = 11$

8. $y + z = 4$
$y - z = 8$

1. $5m - p = 7$
$7m - p = 11$

3 $7f + 3g = -6$

$7f - 2g = -31$

4. $6a - 3b = 27$
$2a - 3b = 11$