Algebra I - Bellwork #55



- 2. Solve each system of equations.
- a) m n = 7

4m + 3n = 35

b)

5P - 6Q = -3

3P - 8Q = 7

4. Without graphing tell if each system of equations has ONE, NONE, or MANY solutions.

a)
$$y = -2x - 9$$

 $10x - 5y = 45$
b) $y = -3x$
 $-3x + y = 7$

- 5. Factor.
- a) $96x^5y^4 48x^2y^6$

b) $x^2 - xy - 12y^2$

6. A house you wanted to buy originally costs \$280,000. Its value increases every 3 years. What will be the value of the house in 24 years?

3. The grocery store got a delivery of 39 boxes of food. Inside each small box is 16 cans. Inside each large box is 24 cans. When all the boxes were opened there was a total of 768 cans of food. Write and solve a system of equations to find the number of small and large boxes.

7. The number of cells of a certain bacterium doubles every 20 minutes. At 9:00 AM there are 300 bacteria cells. Find the number of bacteria cells at 3:30 PM.