Factoring Polynomials using GCF
Algebra 1B

Name_____
Period_____

Factor the following polynomials by finding the greatest common factor.

1) $18x^2 - 15$

2) $36x^{12} - 12x^8 + 20x^6$

3) $24x^4 + 12x^3$

4) $15x^4 + 3y^2$

5) $16x^2 + 96x$

6) $16x^2 - 80$

7) $20x^3 + 28x^2 + 16x$

8) $100x^5 + 20x^3 - 40$

To prepare your mind for the new lesson today, I want you to complete the blank area model for the problems below by deciding what needs to be in each of the black squares.

9)

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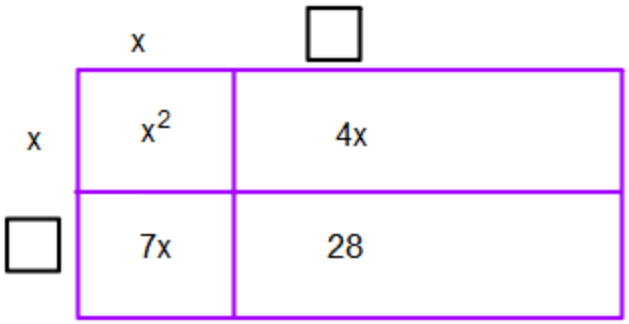
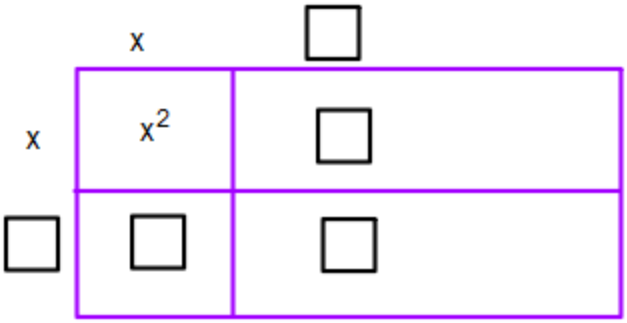



$x^2 + 4x + 7x + 28$

$x^2 + 11x + 28$

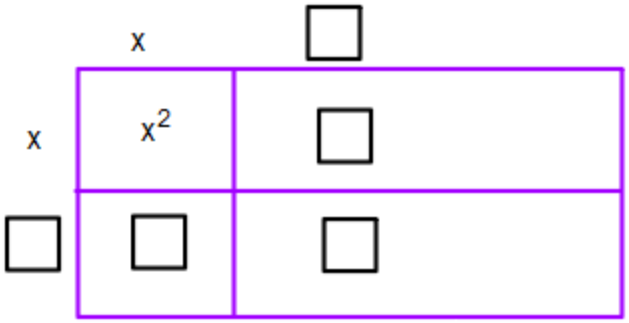
10)




$x^2 + 3x + 9x + 27$

$x^2 + 12x + 27$

11)




$x^2 + 10x + 21$