ALGEBRA

Write your questions here!

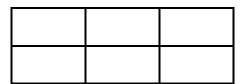
Monomial to Polynomial

$$2x^3(x^2 + 7x - 5)$$

Binomial to Polynomial

$$(3y-1)(2y-3)$$

Multiply using a Table



$$(2x^2 - 1)(3x^2 + 5x - 2)$$

Perfect Square

Difference of Squares

$$(x + 5)(x - 5)$$

	Try it!	$3m^2(3m^2-4m+2)$
	(2 2)?	(21-15)(21-21-41-5)
	$(2x-3)^2$	$(3h+5)(2h^2+4h-5)$
7.		

SUMMARY:



1.5 Multiply Polynomials

PRACTICE

Find the product.				
1. $2x(3x^2-4x+5)$	2. $3a(5a^6 - 2a^3 + a)$	3. $(4g^2-2)(-4g)$		
4. $x^2(2x^2-7x+1)$	5. $4y^2(5y^2+2y-3)$	6. $2x(y^2-3x)$		
,		,		
7. $(2x+1)(4x+3)$	8. $(2p+1)(3p-2)$	9. $(2a+b)(2a+3b)$		
, , , ,				

Find the product.	
0. $(5a-3)^2$	11. $(3k-1)(3k^2-11k-8)$
12. $2(4m+3)(2m-1)$	13. $(3c + 4)^2$
14. $(n+1)(2n^3-n^2+n+12)$	15. $(3b^2 + 5)(b^2 - 5b + 4)$
16. $(x^2+2)(x^2+5)$	17. $2d(d-5)^2$

Find each product.

1.
$$(3x + 2)^2$$

2.
$$(d^2+1)(2d^2-5d+7)$$

Perimeter:

3. The expression 3(2m+5)(8-4m) is equivalent to which of the following expressions?

A)
$$-24m^2 - 12m + 120$$

B)
$$-72m^2 - 36m + 360$$

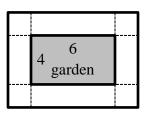
C)
$$-24m^2 + 28m + 40$$

D)
$$-24m^2 + 42m + 120$$

E)
$$-72m^2 + 144m + 360$$

4. Tommy has a tomato garden that his 4 foot by 6 foot. He would like to put gravel path around his garden as shown below. He is not sure how wide he wants to make the path so let's just call it x. Write an expression to represent the perimeter and area of the entire garden including the path in terms of x, the width of the path.

Area:



SMP #4

Use your expressions to find both the area and perimeter of the entire garden including path if the path is 2 foot wide.

EXIT TICKET

Mr. Bean says "the expression 2x(x+3) - 4(x+3) is equivalent to the expression (2x-4)(x+3)". Mr. Kelly says "Bean is kray kray, there is no way that the expressions are equal."

Construct a viable argument supporting either Mr. Bean or Mr. Kelly.

SMP #3