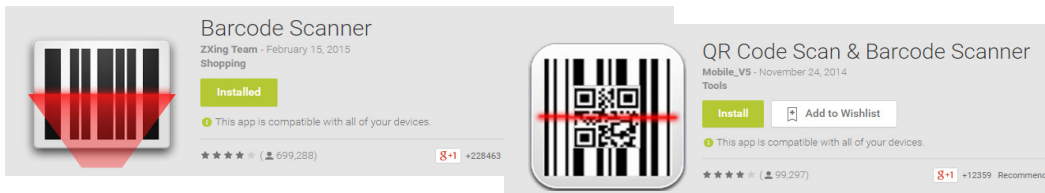


Bell Work

3/5/2015

Please have out your classwork from Tuesday

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- Optimized user

Multiplying Polynomials Practice
Odd Problems only!

Multiplying Polynomials Practice

$$\textcircled{1} \quad \begin{array}{c} \curvearrowright \\ 6v(2v+3) \\ \hline 12v^2+18v \end{array}$$

$$\textcircled{3} \quad \begin{array}{c} \curvearrowright \\ 2x(-2x-3) \\ \hline -4x^2-6x \end{array}$$

$$\textcircled{5} \quad (2n+2)(6n+1)$$

$$\begin{array}{c} 2n \quad 2 \\ 6n \begin{array}{|c|c|} \hline 12n^2 & 12n \\ \hline 2n & 2 \\ \hline \end{array} \\ 1 \\ \hline 12n^2 + 12n + 2n + 2 \\ \hline 12n^2 + 14n + 2 \end{array}$$

$$\textcircled{7} \quad (x-3)(6x-2)$$

$$\begin{array}{c} x \quad -3 \\ 6x \begin{array}{|c|c|} \hline 6x^2 & -18x \\ \hline -2 & -2x \\ \hline \end{array} \\ -2 \\ \hline 6x^2 - 18x - 2x + 6 \\ \hline 6x^2 - 20x + 6 \end{array}$$

$$\textcircled{9} \quad (6p+8)(5p-8)$$

$$\begin{array}{c} 6p \quad 8 \\ 5p \begin{array}{|c|c|} \hline 30p^2 & 40p \\ \hline -8 & -64 \\ \hline \end{array} \\ -8 \\ \hline 30p^2 - 48p + 40p - 64 \\ \hline 30p^2 - 8p - 64 \end{array}$$

⑪ $(2a-1)(8a-5)$

	2a	-1
8a	16a ²	-8a
-5	-10a	5

$16a^2 - 8a - 10a + 5$

$(16a^2 - 18a + 5)$

⑬ $(4p-1)^2$

$(4p-1)(4p-1)$

	4p	-1
4p	16p ²	-4p
-1	-4p	1

$16p^2 - 4p - 4p + 1$

$(16p^2 - 8p + 1)$

⑮ $(6n+3)(6n-4)$

	6n	3
6n	36n ²	18n
-4	-24n	-12

$36n^2 + 18n - 24n - 12$

$(36n^2 - 6n - 12)$

⑰ $(6k+5)(6k+5)$

	6k	5
6k	36k ²	30k
5	30k	25

$36k^2 + 30k + 30k + 25$

$(36k^2 + 60k + 25)$

19) $(4a+2)(6a^2-9+2)$

	$6a^2$	-9	2
$4a$	$24a^3$	$-4a^2$	$8a$
2	$12a^2$	$-2a$	4

$24a^3 - 4a^2 + 12a^2 + (8a - 2a) + 4$

$24a^3 + 8a^2 + 6a + 4$

21) $(7r^2-6r-6)(2r-4)$

	$7r^2$	$-6r$	-6
$2r$	$14r^3$	$-12r^2$	$-12r$
-4	$-28r^2$	$24r$	24

$14r^3 - 12r^2 - 28r^2 + (-12r + 24r) + 24$

$14r^3 - 40r^2 + 12r + 24$

23) $(6n^2-6n-5)(7n^2+6n-5)$

	$6n^2$	$-6n$	-5
$7n^2$	$42n^4$	$-42n^3$	$-35n^2$
$6n$	$36n^3$	$-36n^2$	$-30n$
-5	$-30n^2$	$30n$	25

$42n^4 - 42n^3 + 36n^3 - 35n^2 - 36n^2 - 30n + 30n - 30n + 25$

$42n^4 - 6n^3 - 10n^2 + 25$

Steps:

1. List your terms in descending order.
2. Group LIKE TERMS together. (LIKE TERMS: Same variable AND same exponent!)
3. Scan QR Codes to check your answers AFTER you finish all 3 problems.

Polynomial Expressions

$$A = (7x^2 - 3x + 8)$$

$$B = (6x^3 - 4x - 12)$$

$$A + B$$

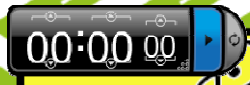


$$A - B$$



$$B - A$$





Polynomial Chart

x^5	x^4	x^3	x^2	x	constant