KEY

First Name:_____ Last Name:_____

L12 – FQ – 5.1 Multiplying Polynomials

Q1: $3x(x-2)$

$3x(x-2)$

$3x^2-6x$

	x	-2
$3x$	$3x^2$	$-6x$

$3x^2-6x$

Q2: $2x^2y^3(-3xy^2+5)$

$-6x^3y^5+10x^2y^3$

	$-3xy^2$	$+5$
$2x^2y^3$	$-6x^3y^5$	$10x^2y^3$

$-6x^3y^5+10x^2y^3$

Q3: $(x-2)(x+3)$

$x^2+3x-2x-6$

x^2+x-6

	x	$+3$
x	x^2	$+3x$
-2	$-2x$	-6

$x^2+3x-2x-6$

x^2+x-6

[redacted] they [redacted]

Q4: $(2x-3)(x+6)-(x-2)^2$

$(2x^2+12x-3x-18) - (x-2)(x-2)$

$(2x^2+9x-18) - (x^2-2x-2x+4)$

$(2x^2+9x-18) - (x^2-4x+4)$

$2x^2+9x-18 \quad -x^2+4x-4$

$x^2+13x-22$

	x	$+6$
$2x$	$2x^2$	$+12x$
-3	$-3x$	-18

$2x^2+9x-18$

	x	-2
x	x^2	$-2x$
-2	$-2x$	$+4$

x^2-4x+4

$(2x^2+9x-18) - (x^2-4x+4)$

$2x^2+9x-18 \quad -x^2+4x-4$

$x^2+13x-22$

Q5: $(2x^2y+1)(y+3x^2y^2+5)$

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

$2x^2y^2+6x^4y^3+10x^2y+y+3x^2y^2+5$

$+6x^4y^3+5x^2y^2+10x^2y+y+5$

	y	$+3x^2y^2$	$+5$
$2x^2y$	$2x^2y^2$	$6x^4y^3$	$10x^2y$
$+1$	y	$3x^2y^2$	5

$2x^2y^2+6x^4y^3+10x^2y+y+3x^2y^2+5$

$6x^4y^3+5x^2y^2+10x^2y+y+5$

MARKING

Beginning	0.0 – 2.0
Progressing	2.5 – 3.5
Competent	4.0 – 4.5
Exemplary	5.0