Name : _____

Multiplying Monomials & Binomials

Sheet 1

Find the product using box method.

1) $2a(a^6 - a^3)$

2) $-xy(-x^2 + 3)$

3) $-p(5r^5 + 4q^3)$

4) $-9(-12m^2 - 6)$

5) $5t^5(-7t^4 - 11t^3)$

6) $13z^2(5z^3 + 3z^2)$

7) $-3u^3(u^3v^2 - v^4)$

8) $8w^6(-10w^6 + 8w^2)$

Name : _____

Answer key

Multiplying Monomials & Binomials

Sheet 1

Find the product using box method.

1) $2a(a^6 - a^3)$

	a^6	$-a^3$
$2a$	$2a^7$	$-2a^4$

$2a^7 - 2a^4$

2) $-xy(-x^2 + 3)$

	$-x^2$	3
$-xy$	x^3y	$-3xy$

$x^3y - 3xy$

3) $-p(5r^5 + 4q^3)$

	$5r^5$	$4q^3$
$-p$	$-5pr^5$	$-4pq^3$

$-5pr^5 - 4pq^3$

4) $-9(-12m^2 - 6)$

	$-12m^2$	-6
-9	$108m^2$	54

$108m^2 + 54$

5) $5t^5(-7t^4 - 11t^3)$

	$-7t^4$	$-11t^3$
$5t^5$	$-35t^9$	$-55t^8$

$-35t^9 - 55t^8$

6) $13z^2(5z^3 + 3z^2)$

	$5z^3$	$3z^2$
$13z^2$	$65z^5$	$39z^4$

$65z^5 + 39z^4$

7) $-3u^3(u^3v^2 - v^4)$

	u^3v^2	$-v^4$
$-3u^3$	$-3u^6v^2$	$3u^3v^4$

$-3u^6v^2 + 3u^3v^4$

8) $8w^6(-10w^6 + 8w^2)$

	$-10w^6$	$8w^2$
$8w^6$	$-80w^{12}$	$64w^8$

$-80w^{12} + 64w^8$