



## Multiplying Binomials - Box Method

Name \_\_\_\_\_

Score \_\_\_\_\_

BM:09

Multiply the binomials using box method.

1)  $(n^2 - 4)(n^3 - 5n)$

	$n^3$	$-5n$
$n^2$		
$-4$		

\_\_\_\_\_

2)  $(u + 4v)(w + 8)$

	$w$	$8$
$u$		
$4v$		

\_\_\_\_\_

3)  $(7t + 6)(2t - 1)$

	$2t$	$-1$
$7t$		
$6$		

\_\_\_\_\_

4)  $(x + 9)(y + 10)$

	$y$	$10$
$x$		
$9$		

\_\_\_\_\_

5)  $(pq - 2)(4pq + 3)$

	$4pq$	$3$
$pq$		
$-2$		

\_\_\_\_\_

6)  $(k^2 - 3k)(2k + 7)$

	$2k$	$7$
$k^2$		
$-3k$		

\_\_\_\_\_



# Multiplying Binomials - Box Method

Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

BM:09

Multiply the binomials using box method.

1)  $(n^2 - 4)(n^3 - 5n)$

	$n^3$	$-5n$
$n^2$	$n^5$	$-5n^3$
$-4$	$-4n^3$	$20n$

$n^5 - 9n^3 + 20n$

2)  $(u + 4v)(w + 8)$

	$w$	$8$
$u$	$uw$	$8u$
$4v$	$4vw$	$32v$

$uw + 4vw + 8u + 32v$

3)  $(7t + 6)(2t - 1)$

	$2t$	$-1$
$7t$	$14t^2$	$-7t$
$6$	$12t$	$-6$

$14t^2 + 5t - 6$

4)  $(x + 9)(y + 10)$

	$y$	$10$
$x$	$xy$	$10x$
$9$	$9y$	$90$

$xy + 10x + 9y + 90$

5)  $(pq - 2)(4pq + 3)$

	$4pq$	$3$
$pq$	$4p^2q^2$	$3pq$
$-2$	$-8pq$	$-6$

$4p^2q^2 - 5pq - 6$

6)  $(k^2 - 3k)(2k + 7)$

	$2k$	$7$
$k^2$	$2k^3$	$7k^2$
$-3k$	$-6k^2$	$-21k$

$2k^3 + k^2 - 21k$