



Multiplying Binomials - Box Method

Name _____

Score _____

BM:08

Multiply the binomials using box method.

1) $(u - v)(2u + 5v)$

	2u	5v
u		
v		

2) $(6m + 5)(4m - 3)$

	4m	-3
6m		
5		

3) $(k + 9)(k + 7)$

	k	7
k		
9		

4) $(g^2 - h^2)(5g^2 + 6h^2)$

	$5g^2$	$6h^2$
g^2		
$-h^2$		

5) $(3a^2 - b^2)(4c - d)$

	4c	-d
$3a^2$		
b^2		

6) $(w^3 - 11w^2)(w - 4)$

	w	-4
w^3		
$-11w^2$		



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Answer key

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Multiply the binomials using box method.

1) $(u - v)(2u + 5v)$

	2u	5v
u	$2u^2$	$5uv$
v	$2uv$	$5v^2$

$2u^2 + 7uv + 5v^2$

2) $(6m + 5)(4m - 3)$

	4m	-3
6m	$24m^2$	$-18m$
5	$20m$	-15

$24m^2 + 2m - 15$

3) $(k + 9)(k + 7)$

	k	7
k	k^2	$7k$
9	$9k$	63

$k^2 + 16k + 63$

4) $(g^2 - h^2)(5g^2 + 6h^2)$

	$5g^2$	$6h^2$
g^2	$5g^4$	$6g^2h^2$
$-h^2$	$-5g^2h^2$	$-6h^4$

$5g^4 + g^2h^2 - 6h^4$

5) $(3a^2 - b^2)(4c - d)$

	4c	-d
$3a^2$	$12a^2c$	$-3a^2d$
b^2	$4b^2c$	$-b^2d$

$12a^2c - 3a^2d + 4b^2c - b^2d$

6) $(w^3 - 11w^2)(w - 4)$

	w	-4
w^3	w^4	$-4w^3$
$-11w^2$	$-11w^3$	$44w^2$

$w^4 - 15w^3 + 44w^2$