



Multiplying Polynomials - Box Method

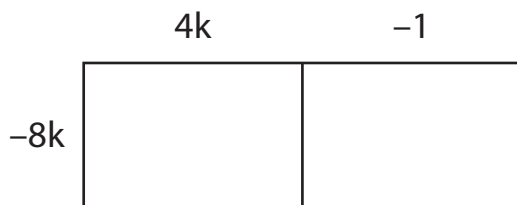
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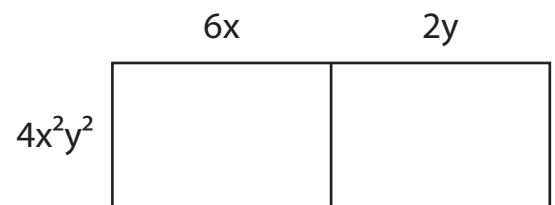
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Multiply the polynomials using box method.

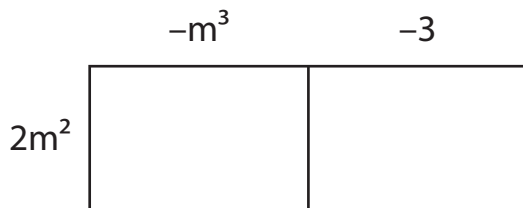
1) $-8k(4k - 1) =$



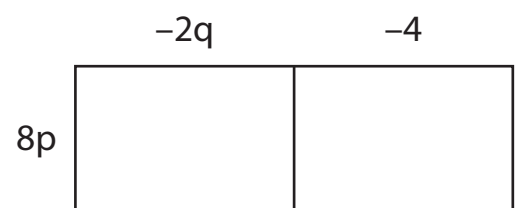
2) $4x^2y^2(6x + 2y) =$



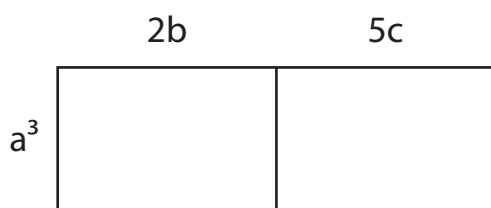
3) $2m^2(-m^3 - 3) =$



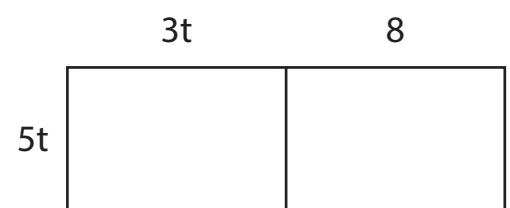
4) $8p(-2q - 4) =$



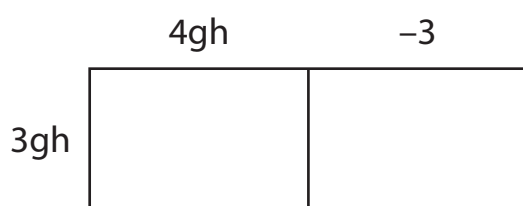
5) $a^3(2b + 5c) =$



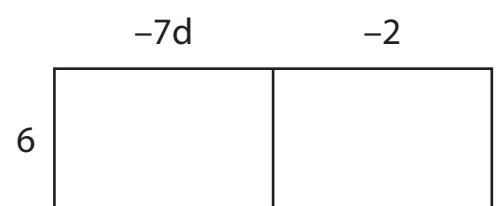
6) $5t(3t + 8) =$



7) $3gh(4gh - 3) =$



8) $6(-7d - 2) =$





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Answer key

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Multiply the polynomials using box method.

1) $-8k(4k - 1) = -32k^2 + 8k$

	4k	-1
-8k	$-32k^2$	$8k$

2) $4x^2y^2(6x + 2y) = 24x^3y^2 + 8x^2y^3$

	6x	2y
$4x^2y^2$	$24x^3y^2$	$8x^2y^3$

3) $2m^2(-m^3 - 3) = -2m^5 - 6m^2$

	$-m^3$	-3
$2m^2$	$-2m^5$	$-6m^2$

4) $8p(-2q - 4) = -16pq - 32p$

	-2q	-4
8p	$-16pq$	$-32p$

5) $a^3(2b + 5c) = 2a^3b + 5a^3c$

	2b	5c
a^3	$2a^3b$	$5a^3c$

6) $5t(3t + 8) = 15t^2 + 40t$

	3t	8
5t	$15t^2$	$40t$

7) $3gh(4gh - 3) = 12g^2h^2 - 9gh$

	4gh	-3
3gh	$12g^2h^2$	$-9gh$

8) $6(-7d - 2) = -42d - 12$

	-7d	-2
6	$-42d$	-12