

Multiplying Monomials and Polynomials

with Algebra Blocks

Multiply and find the product. One is done for you.

1 $x(x + 6)$

	x	1	1	1	1	1	1
x	x^2	x	x	x	x	x	x

.....
 $x^2 + 6x$

2 $x(2x + 3)$

	x	x	1	1	1
x					

.....

3 $p(2p + 1)$

	p	p	1
p			

.....

4 $n(3n + 1)$

	n	n	n	1
n				

.....

5 $2a(a - 3)$

	a	-1	-1	-1
a				
a				

.....

6 $(2b)(3b)$

	b	b	b
b			
b			

.....

7 $(-3a)(-5a)$

	-a	-a	-a	-a	-a
-a					
-a					
-a					

.....

8 $2m(2m - 1)$

	m	m	-1
m			
m			

.....

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Answers

1 $x(x + 6)$

	x	1	1	1	1	1	1
x	x^2	x	x	x	x	x	x

$x^2 + 6x$

2 $x(2x + 3)$

	x	x	1	1	1
x	x^2	x^2	x	x	x

$2x^2 + 3x$

3 $p(2p + 1)$

	p	p	1
p	p^2	p^2	p

$2p^2 + p$

4 $n(3n + 1)$

	n	n	n	1
n	n^2	n^2	n^2	n

$3n^2 + n$

5 $2a(a - 3)$

	a	-1	-1	-1
a	a^2	-a	-a	-a
a	a^2	-a	-a	-a

$2a^2 - 6a$

6 $(2b)(3b)$

	b	b	b
b	b^2	b^2	b^2
b	b^2	b^2	b^2

$6b^2$

7 $(-3a)(-5a)$

	-a	-a	-a	-a	-a
-a	a^2	a^2	a^2	a^2	a^2
-a	a^2	a^2	a^2	a^2	a^2
-a	a^2	a^2	a^2	a^2	a^2

$15a^2$

8 $2m(2m - 1)$

	m	m	-1
m	m^2	m^2	-m
m	m^2	m^2	-m

$4m^2 - 2m$