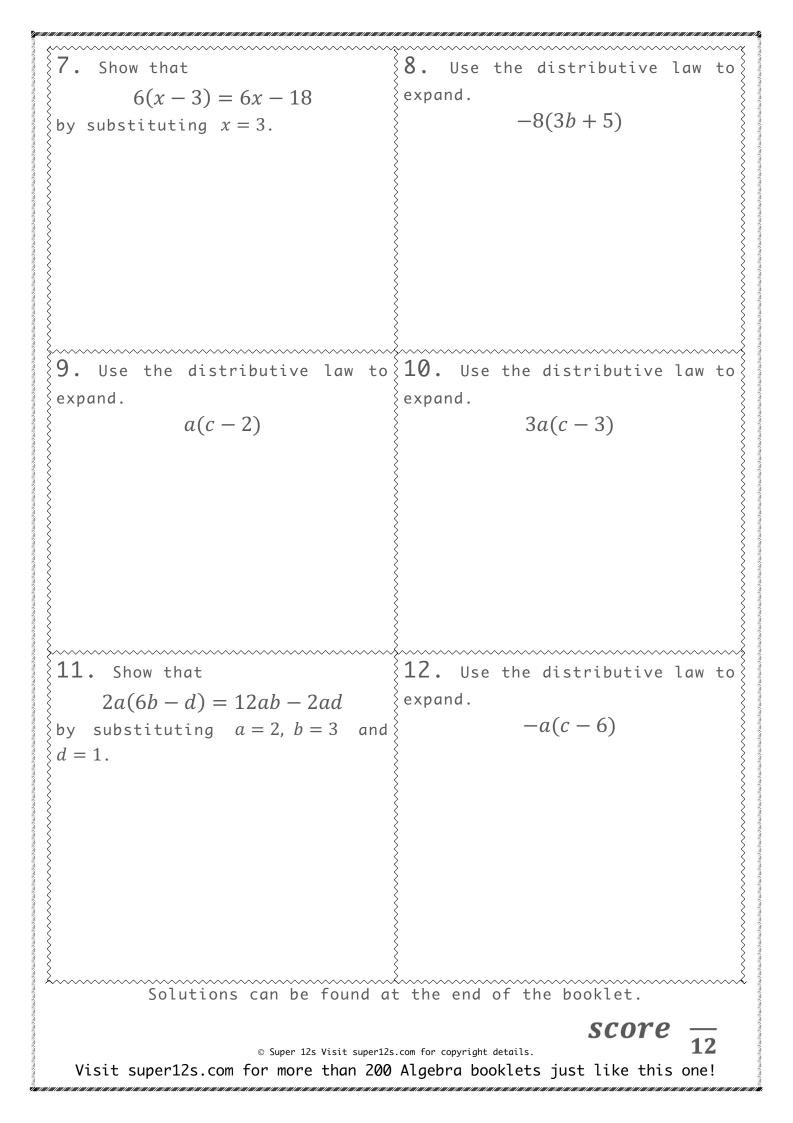


Skill description: Expanding brackets using the distributive law involving terms with coefficients and variables.

Essential Revision

	2. Use the distributive law to
expand.	expand.
3(d-p)	6(2x-3)
3. Show that	4. Use the distributive law to
2(p-2d) = 2p - 4d	expand.
by substituting $p = 5$ and $d = 3$.	-4(x-2)
5. Use the distributive law to	6. Use the distributive law to
expand.	expand.
a(b+d)	2a(7b-d)
· · · · · · · · · · · · · · · · · · · ·	<u>}</u>
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STRATEGIES TO SOLVE THE PROBLEMS

Example 1

Use the distributive law to expand the following bracket.

a(3a + 2)

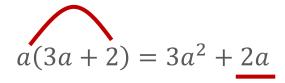
Step 1

Multiply the a and 3a.

 $a(3a+2) = 3a^2$

Step 2

Multiply the a and 2. As both the a and 2 are positive, the result is +2a.



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Example 2

Use the distributive law to expand the following bracket.

 $x^2(x-3)$

Step 1 Multiply the x^2 and x.

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

Step 2

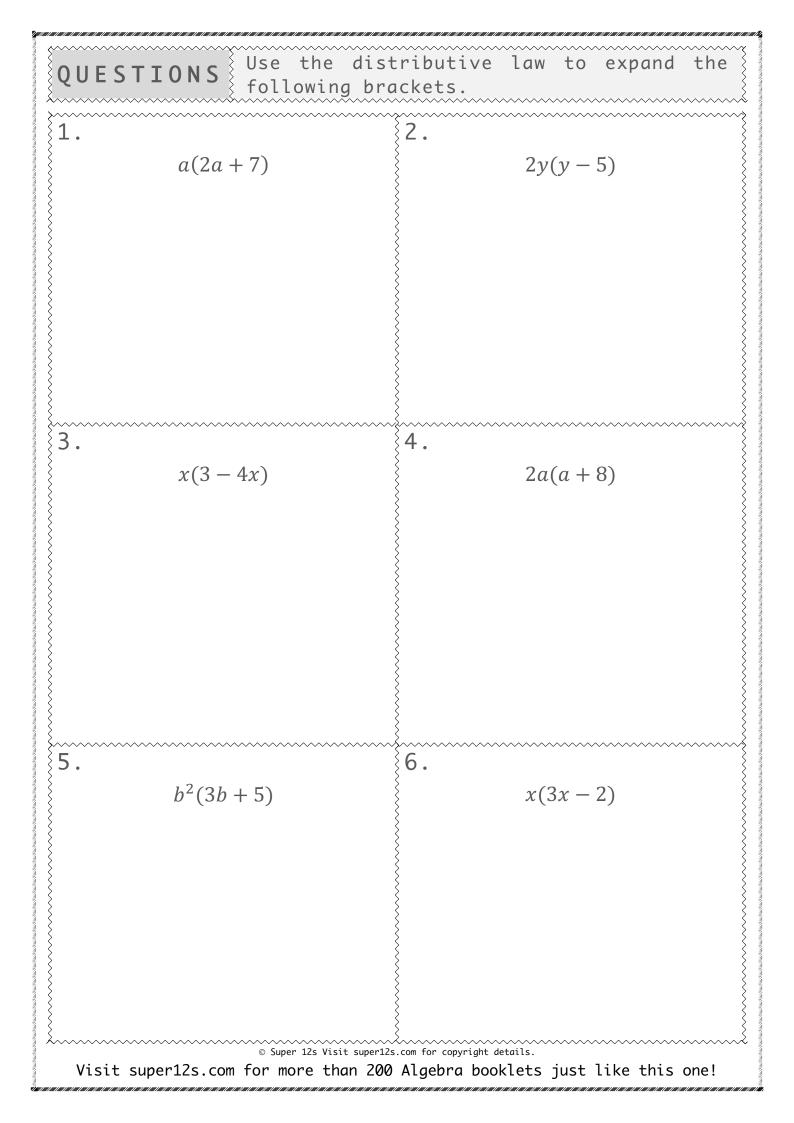
Multiply the x^2 and -3. As the x^2 is positive and the 3 negative, the resultant is $-3x^2$.

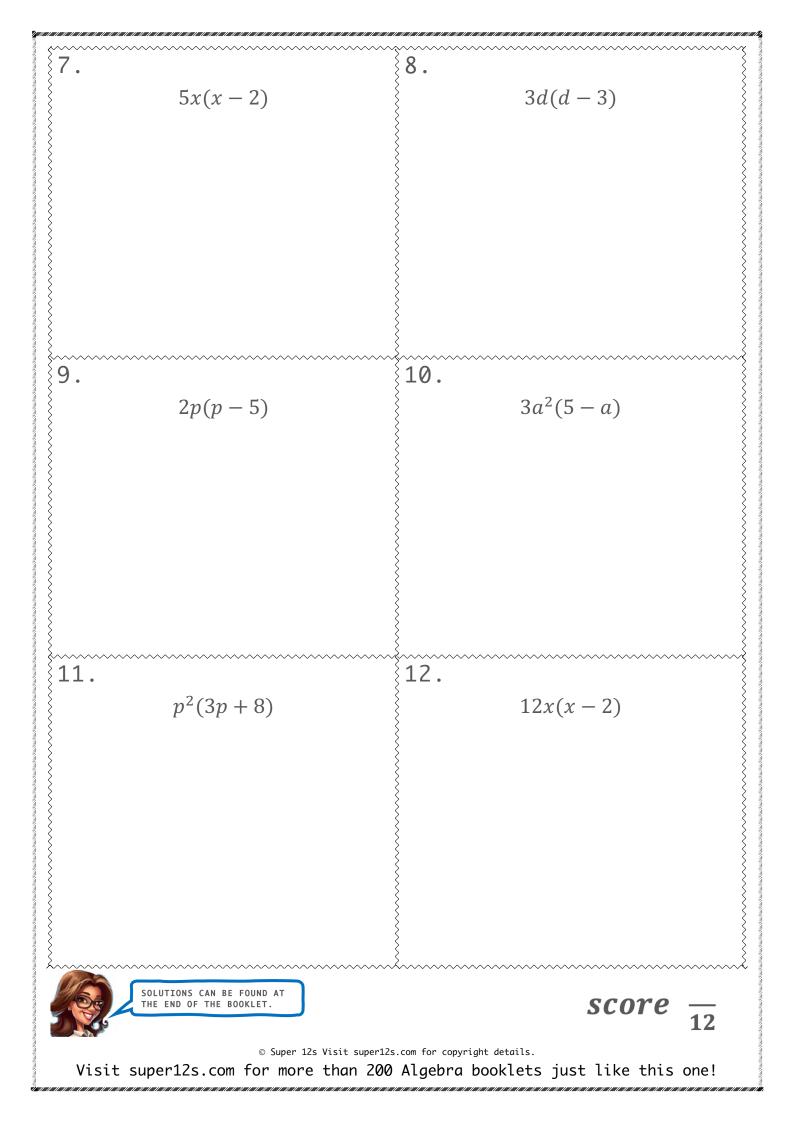
$$x^2(x-3) = x^3 - 3x^2$$



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MASTERY TEST	
Toachon's signature	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Teacher's signature	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
I'VE COMPLETED	
	CELEBRATING PROGRESS This certificate is awarded to CELEBRATING PROGRESS
	For completing 25 mathematics levels this year For completing 50 mathematics levels this year
LEVELS THIS YEAR	(das techn)
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
olutions to Essential Revi	sion
1. $3d - 3p$	2. $12x - 18$
3. $-2 = -2$	44x + 8
5. $ab + ad$	6. 14ab - 2ad
7. $0 = 0$	824b - 40
9. $ac - 2a$	10. 3ac - 9a
11. 68 = 68	12ac + 6a
alutions to Augstiers	
folutions to Questions $1.  2a^2 + 7a$	$2^{2}$ $2_{3}$ $2^{2}$ $10_{3}$
$3  3x - 4x^2$	$\begin{array}{c} 2 \cdot 2y^2 - 10y \\ 4 \cdot 2a^2 + 16a \end{array}$
5 $3x - 4x^{-1}$ 5. $3b^{3} + 5b^{2}$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
7. $5x^2 - 10x$	$\begin{cases} 6. & 3x^2 - 2x \\ 8. & 3d^2 - 9d \end{cases}$
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$3a^2 - 9a^3$ 10. $15a^2 - 3a^3$
9. $2p^2 - 10p$ 11. $3p^3 + 8p^2$	$10. 15a^2 - 3a^3$ 12. $12x^2 - 24x$
$\mathbf{T} \cdot \mathbf{S} h + \mathbf{O} h$	$\downarrow \perp \angle \cdot \perp \angle \chi = \angle 4\chi$