

# CODE BREAKER

## EXPANDING A BRACKET [1]

A	B	C	D	E	F	G	H	I
$2a + 6$	$2a + 2b + 2$	$3a - b$	$4a + 1$	$2a + 2b$	$4a + 4b + 4$	$2a + 2$	$3a - 2$	$3a + 3b$
J	K	L	M	N	O	P	Q	R
$3a + 1$	$4a + b + 1$	$3a + 3b - 3$	$3a - 3b + 3$	$3a - 3b$	$3a + 3$	$3a - b$	$4a + 4$	$2a + 2b + 4$
S	T	U	V	W	X	Y	Z	
$2a + 3$	$2a + 4$	$3a - 6$	$6a - 3$	$3a + 3b + 3$	$3a - 9$	$4a + 4b + 1$	$3a + b$	

Answer the questions below and link your answers to the table above. Rearrange the letters you get to spell two words that are used in maths.

Expand... $4(a + 1)$ Letter: <input type="text"/>	Expand... $3(a + 1)$ Letter: <input type="text"/>	Expand... $2(a + 2)$ Letter: <input type="text"/>	Expand... $2(a + 3)$ Letter: <input type="text"/>	Expand... $3(a - 2)$ Letter: <input type="text"/>
Expand... $3(a - b)$ Letter: <input type="text"/>	Expand... $3(a + b)$ Letter: <input type="text"/>	Expand... $2(a + b)$ Letter: <input type="text"/>	Expand... $4(a + b + 1)$ Letter: <input type="text"/>	Expand... $3(a + b - 1)$ Letter: <input type="text"/>
Expand... $3(a - b + 1)$ Letter: <input type="text"/>	Expand... $2(a + b + 2)$ Letter: <input type="text"/>	Expand... $2(a + 1 + 2)$ Letter: <input type="text"/>	Expand... $3(2 + a - 1)$ Letter: <input type="text"/>	Expand... $3(1 + a - 3)$ Letter: <input type="text"/>

# ANSWERS

## EXPANDING A BRACKET [1]

A	B	C	D	E	F	G	H	I
$2a + 6$	$2a + 2b + 2$	$3a - b$	$4a + 1$	$2a + 2b$	$4a + 4b + 4$	$2a + 2$	$3a - 2$	$3a + 3b$
J	K	L	M	N	O	P	Q	R
$3a + 1$	$4a + b + 1$	$3a + 3b - 3$	$3a - 3b + 3$	$3a - 3b$	$3a + 3$	$3a - b$	$4a + 4$	$2a + 2b + 4$
S	T	U	V	W	X	Y	Z	
$2a + 3$	$2a + 4$	$3a - 6$	$6a - 3$	$3a + 3b + 3$	$3a - 9$	$4a + 4b + 1$	$3a + b$	

Answer the questions below and link your answers to the table above. Rearrange the letters you get to spell two words that are used in maths.

Expand... $4(a + 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">Q</span>	Expand... $3(a + 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">O</span>	Expand... $2(a + 2)$ Letter: <span style="border: 1px solid black; padding: 2px;">T</span>	Expand... $2(a + 3)$ Letter: <span style="border: 1px solid black; padding: 2px;">A</span>	Expand... $3(a - 2)$ Letter: <span style="border: 1px solid black; padding: 2px;">U</span>
Expand... $3(a - b)$ Letter: <span style="border: 1px solid black; padding: 2px;">N</span>	Expand... $3(a + b)$ Letter: <span style="border: 1px solid black; padding: 2px;">I</span>	Expand... $2(a + b)$ Letter: <span style="border: 1px solid black; padding: 2px;">E</span>	Expand... $4(a + b + 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">F</span>	Expand... $3(a + b - 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">L</span>
Expand... $3(a - b + 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">M</span>	Expand... $2(a + b + 2)$ Letter: <span style="border: 1px solid black; padding: 2px;">R</span>	Expand... $2(a + 1 + 2)$ Letter: <span style="border: 1px solid black; padding: 2px;">A</span>	Expand... $3(2 + a - 1)$ Letter: <span style="border: 1px solid black; padding: 2px;">O</span>	Expand... $3(1 + a - 3)$ Letter: <span style="border: 1px solid black; padding: 2px;">U</span>