

Expand and Simplify Single Brackets

Literacy The keyboard had sticking keys and missed out all the vowels. Discover the words and write one sentence including as many of the words as you can. Which word totals 15?

xpnd

mltply

smplyf

vrbl

xprsn



Skill 1

Expand

- 1) $3(x + 4) =$
- 2) $2(x + 4) =$
- 3) $3(x - 4) =$
- 4) $3(x - 7) =$
- 5) $-5(x + 8) =$
- 6) $2(3x + 4) =$
- 7) $2(3x - 4) =$
- 8) $-4(5x + 3) =$
- 9) $6(2x + y) =$
- 10) $5(3x + 3y) =$
- 11) $7(2x - 7y) =$
- 12) $x(2x + 4) =$
- 13) $2x(3x + 5) =$
- 14) $3x(5x - 6) =$
- 15) $4y(2x - 3y) =$

Skill 2

Expand and Simplify

- 1) $3x + 2(x + 5) =$
- 2) $6 + 4(x + 3) =$
- 3) $4x + 2(x - 5) =$
- 4) $5x - 2(x + 8) =$
- 5) $5x - 2(x - 8) =$
- 6) $3(x + 7) + 6(3x + 4) =$
- 7) $4(2x + 5) + 3(3x - 4) =$
- 8) $4(3x + 2) + 6(4x + 3) =$
- 9) $6(x + 7) - 3(x + 4) =$
- 10) $3(8x - 4) + 4(2x + 5) =$
- 11) $6(5x + 7) - 2(x - 4) =$
- 12) $5(x + 7) - 2(x - 9) =$
- 13) $6(y - 8) - 3(x + 5) =$
- 14) $8(3x + 7) - 3(2x + 8) =$
- 15) $9(8x - 5) - 7(8x - 9) =$

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Use either the claw or the box method to expand expressions. Remember to multiply both terms by the co-efficient.

Expand $3(x + 5)$

Claw $3(x + 5) = 3x + 15$

Box

	x	$+5$	
3	$3x$	$+15$	

 $3x + 15$



Memory

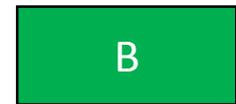
Stretch 1

Write an expression for the area of these shapes.



3 cm

$2x + 9$



8 cm

$3x + \frac{1}{2}$



12x

$0.25x + 1.5$



7x

$4x + 3$

Stretch 2 Expand and Simplify

- 1) $(x + 3)(x + 5) =$
- 2) $(x + 3)(x - 5) =$
- 3) $(x - 3)(x - 5) =$
- 4) $(2x + 4)(x - 7) =$