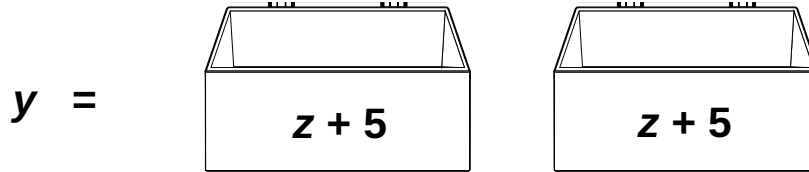


Algebra - Distributive Law

$$y = 2 \times (z + 5) \quad \text{or} \quad y = 2(z + 5)$$

Think of it this way:

$y = 2$ boxes each with an z and a 5 in it.



How many “**Z**”s are there? _____

How many “**5**”s are there? _____

So: $y = 2 \times z + 2 \times 5$

When we write “ $2 \times z$ ” we often leave out the “ \times ”, the multiplication sign, as it is confusing. when using

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Now expand these:

1 a) $y = 3 \times (t - 4)$

c) $y = 5 \times (m + 4)$

b) $y = 6 \times (u + 3)$

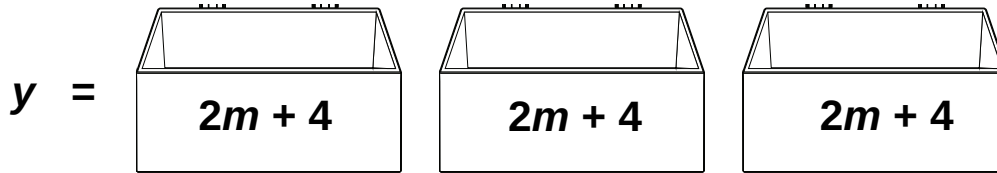
d) $y = 4 \times (w - 6)$

Algebra - Distributive Law (Advanced)

$$y = 3(2m + 4)$$

Think of it this way:

$y = 3$ boxes each with an $2m$ and a 4 in it.



How many " m "s are there? _____

How many " 4 "s are there? _____

So: $y = 3m + 3 \times 4$

Remember: When we write " $3 \times (m + 5)$ " we generally leave out the " \times ", the multiplication sign, as it is confusing. Write the equation without the " \times " when using variables.

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Now expand these:

1 a) $y = 3(4n - 6)$

c) $y = 5(2d + 3)$

b) $y = 5(3m + 4)$

d) $y = 4(3w - 2)$

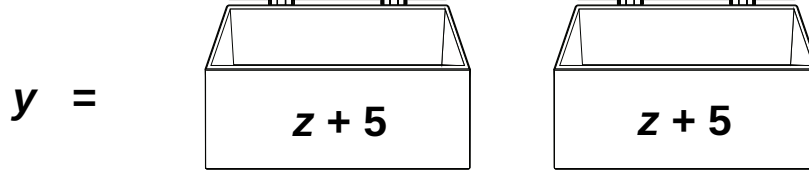
ANSWERS

Algebra - Distributive Law

$$y = 2 \times (z + 5) \quad \text{or} \quad y = 2(z + 5)$$

Think of it this way:

$y = 2$ boxes each with an z and a 5 in it.



How many “**Z**”s are there? 2

How many “**5**”s are there? 2

So: $y = 2 \times z + 2 \times 5$

When we write “ $2 \times z$ ” we often leave out the “ \times ”, the multiplication sign, as it is confusing. when using

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Now expand these:

1 a) $y = 3 \times (t - 4)$

$= 3 \times t - 3 \times 4$

$= 3t - 12$

c) $y = 5 \times (m + 4)$

$= 5 \times m + 5 \times 4$

$= 5m + 20$

b) $y = 6 \times (u + 3)$

$= 6 \times u + 6 \times 3$

$= 6u + 12$

d) $y = 4 \times (w - 6)$

$= 4 \times w - 4 \times 6$

$= 4w - 24$