Expand multiple single brackets and simplify



Given that $3(2h + 5) \equiv 6h + 15$, simplify the expressions.

a)
$$3(2h + 5) + 4$$

c)
$$3(2h + 5) + 5h$$

b)
$$3(2h + 5) - 6$$

d)
$$6h + 3(2h + 5)$$

2 **a)** Expand 3(h + 5)

b) Expand
$$4(h + 6)$$

c) Use your answers to part a) and part b) to simplify 3(h + 5) + 4(h + 6)



b) Expand
$$2(p+q)$$

c) Use your answers to part a) and part b) to simplify 4(2p + 3q) + 2(p + q)



$$2(x-3) + 4(x+3)$$

$$2(x-4) + 4(x+2)$$

$$2(2x + 1) + 4(2x + 2)$$

$$2(2x + 1) + 2(x + 2)$$

$$3(x-3) + 3(x+3)$$

$$2(4x + 3) + 4(x + 1)$$

5 Expand and simplify the expressions.

a)
$$3(r+3)+2r-5$$

d)
$$7(n-3) + 4(2n-5)$$

b)
$$4(2m-3)+4m+5$$

e)
$$6(5p + 4) + 3(2 + 9p)$$

c)
$$7(3p + 4) + 5(2p - 3)$$

f)
$$2(3x - 5y) + 3(4y - 2x)$$

Nijah expands and simplifies the following.

$$5(p + 3) - 2(p + 4) \equiv 5p + 15 - 2p + 8 = 3p + 23$$

What mistake has Nijah made?

What is the correct answer?

Expand and simplify the expressions.

a)
$$3(2t + 5) - 2(t + 3)$$

b)
$$3(2t + 5) - 2(t - 3)$$

8 a) Follow Mo's instruction.



Substitute any number into this expression. 2(x + 6) + 3(x - 4) - 5(x - 2)

b)

The answer will always be 10



Explain how Mo knows this.



Expand multiple single brackets and simplify



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$$3(r+3)+2r-5$$

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$$7(n-3) + 4(2n-5)$$

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Expand and simplify the expressions.

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8 a) Follow Mo's instruction.



Substitute any number into this expression. 2(x + 6) + 3(x - 4) - 5(x - 2)

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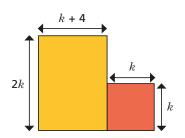


Explain how Mo knows this.



9 Find the areas of the compound shapes.

a)



b)

