Multiply out a single bracket



The bar model shows b + 5

b

a) Discuss why this bar model shows 2(b + 5)

b	5
b	5

- **b)** Draw a bar model to represent 3(b + 5)
- Use the bar models to expand the brackets.

a)	2(x + 3)	=

_ **b)**
$$5(p + 7) \equiv$$

x	3
x	3

p	7
p	7
p	7
p	7
p	7

Draw bar models to help you with the expansions.

a)
$$3(t + 2) \equiv$$

b)
$$4(5 + k) \equiv$$

c)
$$2(3p + 1) \equiv$$

Amir has expanded this bracket.

$$2(k+5) \equiv 2 \times k + 2 \times 5$$
$$\equiv 2k + 10$$



a)
$$7(y + 4) \equiv$$

a)
$$7(y + 4) \equiv$$
 _____ e) $9(5t - 1) \equiv$ _____

b)
$$5(p-2) \equiv$$
 _____ **f)** $3(a+b) \equiv$ _____

f)
$$3(a + b) \equiv$$

c)
$$6(8 + g) \equiv$$

g)
$$4(2m + k) \equiv$$

d)
$$3(4e + 3) \equiv$$

d)
$$3(4e + 3) \equiv$$
 ______ **h)** $7(3p - 2q) \equiv$ ______

Use the rectangles to describe each area in an expanded form.



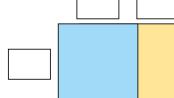
c)



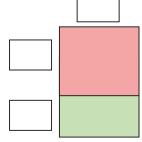


$$2k(k + 2t) \equiv$$









$$n(n + 7) \equiv$$

$$ak(k + a) \equiv \underline{\hspace{1cm}}$$

Multiply out a single bracket



Expand the brackets.

- a) $7(y + 4) \equiv$ _____ e) $9(5t 1) \equiv$ _____
- **b)** $5(p-2) \equiv$ _____ **f)** $3(a+b) \equiv$ _____
- c) $6(8+g) \equiv$ _____ g) $4(2m+k) \equiv$ _____
- d) $3(4e + 3) \equiv$ _____ h) $7(3p 2q) \equiv$ _____
- Use the rectangles to describe each area in an expanded form.

a)



7



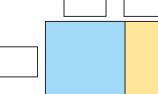




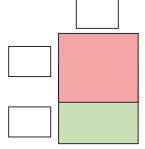


$$2k(k + 2t) \equiv$$

b)



d)



$$n(n + 7) \equiv$$

$$ak(k + a) \equiv \underline{\hspace{1cm}}$$

Eva expands 4(2p - 3).

4(2p-3) = 8p + 1

Here is her working out.

What mistake has Eva made?

What is the correct answer?

Fill in the boxes to make the statements correct.

a)
$$2($$
 + 5) $\equiv 8j + 10$

b)
$$(4k + 7) \equiv 20k +$$

Expand the expressions.

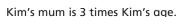
a)
$$-3(f+7) \equiv$$

a)
$$-3(f+7) \equiv$$
 _____ c) $-5(-4+2k) \equiv$ _____

b)
$$-4(w - 6) \equiv$$

b)
$$-4(w-6) \equiv$$
 _____ **d)** $-3n(-n-8) \equiv$ _____

Kim is 5 years older than Scott.



Scott's dad is 3 times Scott's age.

How much older is Kim's mum than Scott's dad?



