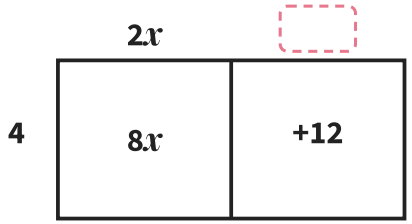
# Factorising into a single bracket

**1** the HCF goes on the side

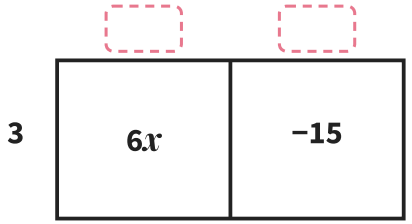
Factorise $8x + 12$




Answer _____

**2**

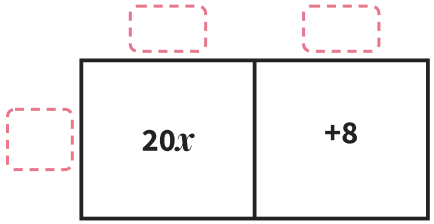
Factorise $6x - 15$




Answer _____

**3**

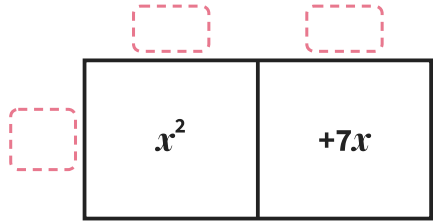
Factorise $20x + 8$




Answer _____

**4** *Notice the change!*

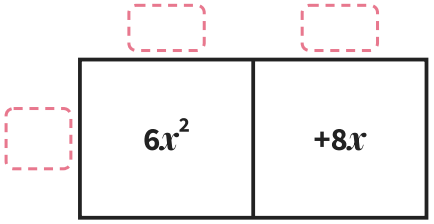
Factorise $x^2 + 7x$




Answer _____

**5** numbers, then letters

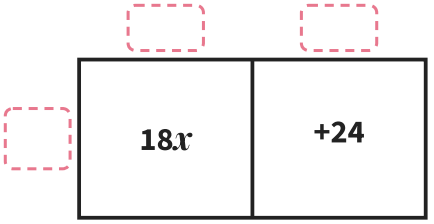
Factorise $6x^2 + 8x$




Answer _____

**6** the highest common factor

Factorise fully $18x + 24$




Answer _____

**7**

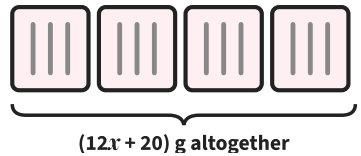
Ollie factorises $9x + 9$ and writes $9(x)$. Explain his mistake. Then write the right answer.

Answer _____

**8**

Four identical packs of pens weigh $(12x + 20)$ g altogether.

Factorise $12x + 20$. Then write an expression for the weight of one pack.




Answer _____

# Factorising into a single bracket *further practice*

**9**

Factorise $9x + 15$

**Answer** _____

**10**

Factorise $4y - 28$

**Answer** _____

**11**

Factorise $y^2 - 6y$

**Answer** _____

**12**

Fill in the box.

$8x + 20 = \square(2x + 5)$

**Answer** _____

**13**

Factorise fully $6x + 9y + 12$

**Answer** _____

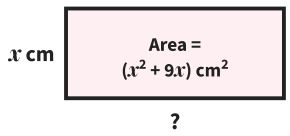
**14**

Six friends share a bill of £$(18x + 30)$ equally. Factorise $18x + 30$, and write an expression for what each friend pays.

**Answer** _____

**15**

The rectangle has an area of $(x^2 + 9x)$ cm$^2$ and a width of $x$ cm. Find an expression for its length.




**Answer** _____

**16**

Mo says that $20x + 30 = 5(4x + 6)$ is factorised fully. Is he right? Explain how you know.

**Answer** _____