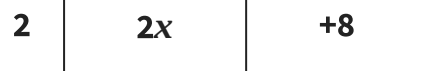
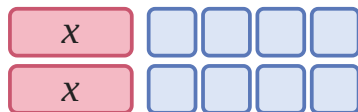


Factorising into a Single Bracket

ANSWERS

1

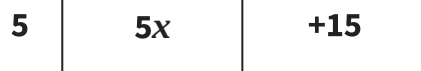
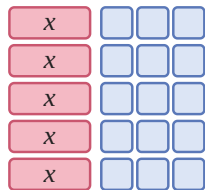
Factorise $2X + 8$



Answer $2(x + 4)$

2

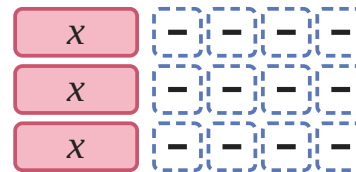
Factorise $5X + 15$



Answer $5(x + 3)$

3

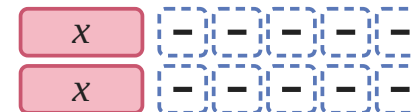
Factorise $3X - 12$



Answer $3(x - 4)$

4

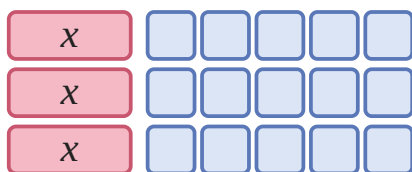
Factorise $2X - 10$



Answer $2(x - 5)$

5

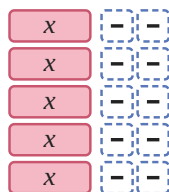
Factorise $3X + 15$



Answer $3(x + 5)$

6

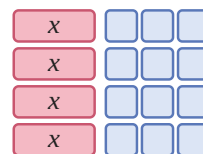
Factorise $5X - 10$



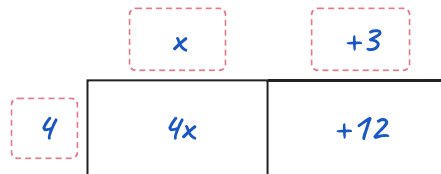
Answer $5(x - 2)$

7

Write the expression for these tiles. Then factorise it.



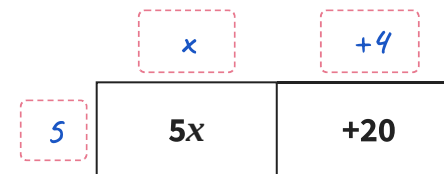
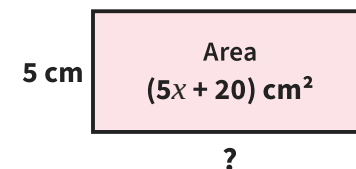
Expression $4x + 12$



Answer $4(x + 3)$

8

Find the length of this rectangle.



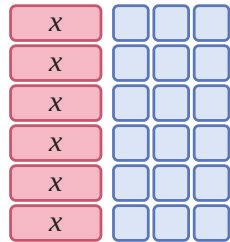
Length $(x + 4)$ cm

Factorising into a Single Bracket *further practice*

ANSWERS

9

Factorise $6x + 18$



x

$+3$

6

$6x$

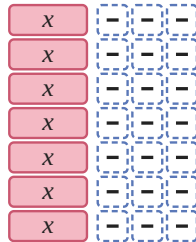
$+18$

Answer

$6(x + 3)$

10

Factorise $7x - 21$



x

-3

7

$7x$

-21

Answer

$7(x - 3)$

11

Factorise $8y + 16$



y

$+2$

8

$8y$

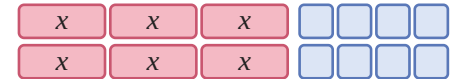
$+16$

Answer

$8(y + 2)$

12

Factorise $6x + 8$



$3x$

$+4$

2

$6x$

$+8$

Answer

$2(3x + 4)$

13

5 friends pay £(5x + 10) in all.
Each friend pays the same.
How much does one friend pay?



$$5x + 10 = 5(x + 2)$$

Check

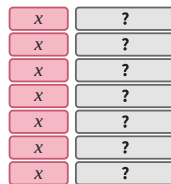
$$5 \times x + 5 \times 2 = 5x + 10$$

One friend pays

$£(x + 2)$

14

Find the missing number.
 $7x + 28 = 7(x + \quad)$



28 squares in all

$$7 \times ? = 28$$

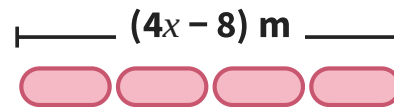
$$7 \times 4 = 28$$

Missing number

4

15

A rope is $(4x - 8)$ m long. It is cut
into 4 equal pieces.
How long is each piece?



$$4x - 8 = 4(x - 2)$$

Check

$$4 \times x - 4 \times 2 = 4x - 8$$

Each piece

$(x - 2)$ m

16

Sam has made a mistake.
What has Sam done wrong?

Sam factorises $3x + 12$

Sam writes $3(x + 12)$

Sam forgot to divide the 12 by 3

$$12 \div 3 = 4, \text{ so it is } +4$$

The right answer is

$3(x + 4)$