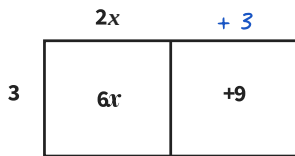


Factorising into a Single Bracket

ANSWERS

1

Factorise $6x + 9$



Answer $3(2x + 3)$

2

Factorise $4x + 12$



Answer $4(x + 3)$

3

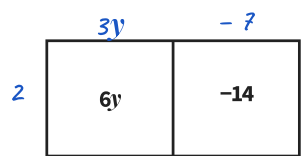
Factorise $10x - 15$



Answer $5(2x - 3)$

4

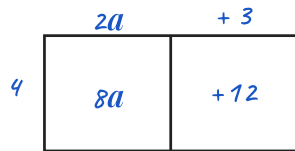
Factorise $6y - 14$



Answer $2(3y - 7)$

5

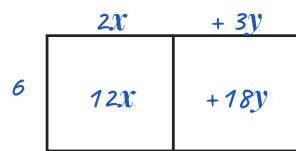
Factorise $8a + 12$



Answer $4(2a + 3)$

6

Factorise $12x + 18y$



Answer $6(2x + 3y)$

7

A rectangle has an area of $6x + 18$. Its width is 6. Find an expression for its length.

$6(x + 3)$

Answer $x + 3$

8

Find the missing number.
 $15x + 10 = 5(3x + ?)$

$5 \times 2 = 10$

Answer 2

Factorising into a Single Bracket *further practice*

ANSWERS

9

Factorise $14a - 21$

Answer $7(2a - 3)$

10

Factorise $x^2 + 5x$

x is a factor of both terms

Answer $x(x + 5)$

11

Factorise $6a + 9b + 3$

3 is a factor of all three terms

Answer $3(2a + 3b + 1)$

12

A square has a perimeter of $(12x + 20)$ cm. Find an expression for the length of one side.

4 equal sides: $12x + 20 = 4(3x + 5)$

Answer $(3x + 5)$ cm

13

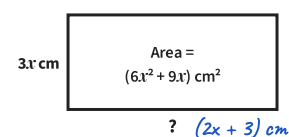
Five meals each cost the same. Together they cost £ $(15x + 40)$. Write an expression for the cost of one meal.

$15x + 40 = 5(3x + 8)$

Answer $£(3x + 8)$

14

Find an expression for the length of this rectangle.



$6x^2 + 9x = 3x(2x + 3)$

Answer $(2x + 3)$ cm

15

Which two of these are equal to $12x + 24$? Which one is factorised fully?

A $6(2x + 4)$

B $3(4x + 6)$

C $12(x + 2)$

D $4(3x + 8)$

Equal A and C

Fully C

16

Lola factorises $10x + 15$ and writes $5(2x + 15)$. What has Lola done wrong? Find the right answer.

she did not divide the 15 by 5

$5(2x + 15)$ expands to $10x + 75$

Answer $5(2x + 3)$