

Express 99 as a product of its prime factors

The pattern shows a fence design:



- Draw the next pattern in the sequence
- Find the  $n$ th term for the fence panels

**SIMPLIFY:**

A)  $P^2 \times P^6 \times P^3$

B)  $\frac{P^4 \times P^5}{P^3}$

**Simplify:**

a)  $5a - 2b - 3a + 3b$

b)  $5p - 4q + q - 4p$

There are 4 blue buttons in a pack and 9 red buttons in a pack. How many packs of each must I buy if I want the same amount of each colour?

**Expand:**

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

**Factorise:**

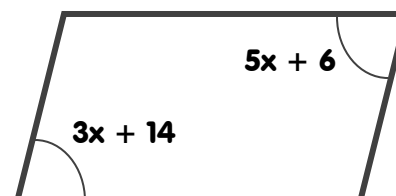
b)  $(8x + 12)$

**Tickets cost £18.50 to a music gig. The band sells 189 tickets and the venue costs them £3000. Estimate how much profit they will earn.**

Solve:  $9x - 7 = 5x + 5$

**Calculate  $1.98 \times 3.6$**

**Find the value of  $x$**



Express 99 as a product of its prime factors

The pattern shows a fence design:



- Draw the next pattern in the sequence
- Find the  $n$ th term for the fence panels

**SIMPLIFY:**

A)  $P^2 \times P^6 \times P^3$

B)  $\frac{P^4 \times P^5}{P^3}$

**Simplify:**

a)  $5a - 2b - 3a + 3b$

b)  $5p - 4q + q - 4p$

There are 4 blue buttons in a pack and 9 red buttons in a pack. How many packs of each must I buy if I want the same amount of each colour?

**Expand:**

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

**Factorise:**

b)  $(8x + 12)$

**Tickets cost £18.50 to a music gig. The band sells 189 tickets and the venue costs them £3000. Estimate how much profit they will earn.**

Solve:  $9x - 7 = 5x + 5$

**Calculate  $1.98 \times 3.6$**

**Find the value of  $x$**

