

National 5 Mathematics

Algebraic Operations - Questions - 2014-2019

Marks are indicated in brackets after each question number

2014 Paper 1 Question 2, (2)

Multiply out the brackets and collect like terms:

$$(2x - 5)(3x + 1).$$

2015 Paper 1 Question 4, (3)

Multiply out the brackets and collect like terms

$$(x - 4)(x^2 + x - 2).$$

2016 Paper 2 Question 4, (2)

Factorise fully  $3x^2 - 48$ .

2017 Paper 1 Question 4, (3)

Expand and simplify  $(2x + 3)(x^2 - 4x + 1)$ .

2017 Paper 1 Question 8, (1) (3)

(a) Factorise  $4x^2 - 25$ .

(b) Hence simplify  $\frac{4x^2 - 25}{2x^2 - x - 10}$ .

2018 Paper 1 Question 2, (3)

Expand and simplify  $(3x + 1)(x - 1) + 2(x^2 - 5)$ .

2019 Paper 1 Question 3, (3)

Expand and simplify  $(x + 5)(2x^2 - 7x - 3)$ .