

Surname	
Other Names	
Candidate's Signature	

## GCSE 9 - 1 Questions

### Expanding and Factorising

**Calculator Allowed**

#### INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

**Total Marks :**

1) Factorise  $12 - 8a$

Answer \_\_\_\_\_ [1]

2) Factorise  $4x - 8$

Answer \_\_\_\_\_ [1]

3) (a) Factorise

(i)  $28 - 7y$

Answer \_\_\_\_\_ [1]

(ii)  $p - pt$

Answer \_\_\_\_\_ [1]

(b) (i) Expand  $5(3 - y)$

Answer \_\_\_\_\_ [1]

4) Expand and simplify  $4(2a + 3) - 7$

Answer \_\_\_\_\_ [2]

5) Expand  $p(4 - p^2)$

Answer \_\_\_\_\_ [2]

Expand  $p(2 + 5p)$ . [2]

6)

.....

Factorise  $3xy - 9y$ . [2]

7)

.....

8) Expand  $2x(3y + 7)$ . [2]

.....

9) Factorise  $10ab - 25a$ . [2]

.....

10) Factorise  $11x + 77$ . [1]

.....

11) Expand  $3(y + 4)$ . [1]

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Lizzie's job is to calculate solutions for a data analysis company which involves working with algebraic equations and expressions.

Process the following for Lizzie.

12)

(a) Factorise  $35x + 15$ . [1]

.....

(b) Simplify  $3a + 5b - 19a - 16b$ . [1]

.....

(c) Simplify  $3(3d - 2e) - (d - e)$ . [2]

.....

.....

(a) Factorise

(i)  $9p + 12$

13)

Answer \_\_\_\_\_ [1]

(ii)  $q^2 - q$

Answer \_\_\_\_\_ [1]

(b) Expand  $x(x^2 + x)$

Answer \_\_\_\_\_ [2]