

Factorising & Expanding

Difficulty: Easy

Question Paper 3

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Algebra and graphs
Sub-Topic	Factorising & Expanding
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 3

Time allowed: 36 minutes

Score: /28

Percentage: /100

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

Factorise completely.

$$kp + 3k + mp + 3m \quad [2]$$

Question 2

Factorise completely.

$$15p^2 + 24pt \quad [2]$$

Question 3

(a) Find the value of $7p - 3q$ when $p = 8$ and $q = -5$. [2]

(b) Factorise completely. $3uv + 9vw$ [2]

Question 4

Factorise completely $ax + bx + ay + by$. [2]

Question 5

Factorise completely.

$$p^2x - 4q^2x$$

[3]

Question 6

Factorise completely.

$$2xy - 4yz$$

[2]

Question 7

Factorise

(a) $4x^2 - 9$, [1]

(b) $4x^2 - 9x$, [1]

(c) $4x^2 - 9x + 2$. [2]

Question 8

(a) $7ac + 14a$,

[1]

(b) $12ax^3 + 18xa^3$.

[2]

Question 9

(a) Factorise completely $12x^2 - 3y^2$. [2]

(b) (i) Expand $(x - 3)^2$. [2]

(ii) $x^2 - 6x + 10$ is to be written in the form $(x - p)^2 + q$. [2]
Find the values of p and q .