Factorising & Expanding Difficulty: Hard

Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Algebra and graphs
Sub-Topic	Factorising & Expanding
Paper	Paper 2
Difficulty	Hard
Booklet	Question Paper 1

Time allowed: **45 minutes**

Score: **/35**

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.

(a) $x^2 - x - 132$ [2]

(b) $x^3 - 4x$ [2]

Question 2

Factorise completely.

(a) $9t^2 - u^2$ [2]

(b) $2c - 4d - pc + 2pd$ [2]

Question 3

Factorise completely.

(a) $15c^2 - 5c$ [2]

(b) $2kp - km + 6p - 3m$ [2]

Question 4

Factorise completely.

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

(b) $2ax - 4bx - ay + 2by$ [2]

Question 5

Factorise completely.

(a) $2a + 4 + ap + 2p$ [2]

(b) $162 - 8t^2$ [2]

Question 6

Factorise completely.

(a) $ax + ay + 3cx + 3cy$ [2]

(b) $3a^2 - 12b^2$ [3]

Question 7

Factorise completely.

(a) $yp + yt + 2xp + 2xt$ [2]

(b) $7(h + k)^2 - 21(h + k)$ [2]

Question 8

Factorise completely

(a) $4p^2q - 6pq^2$ [2]

(b) $u + 4t + ux + 4tx$ [2]

Question 9

$x^2 + 4x - 8$ can be written in the form $(x + p)^2 + q$.

Find the values of p and q. [3]