

Factorising

Question Paper

Course	Edexcel IGCSE Maths
Section	2. Equations, Formulae & Identities
Topic	Factorising
Difficulty	Medium

Time allowed: 60
Score: /43
Percentage: /100

Question 1

Factorise $x^2 + 3x - 10$

[2 marks]

Question 2

Factorise $y^2 - 10y + 16$

[2 marks]

Question 3a

(i)

Factorise $x^2 - 12x + 27$

[2]

(ii)

Solve the equation $x^2 - 12x + 27 = 0$

[1]

[3 marks]

Question 3b

Factorise $y^2 - 100$

[1 mark]

Question 4

Factorise $y^2 + 7y + 6$

[2 marks]

Question 5

Factorise $x^2 + 3x - 4$

[2 marks]

Question 6

Factorise $x^2 - 49$

[1 mark]

Question 7a

Factorise fully $8a^2 + 12a$

[2 marks]

Question 7b

Factorise $y^2 - y - 2$

[2 marks]

Question 8

Factorise $e^2 + e - 12$

[2 marks]

Question 9

Factorise fully $3xy^2 - 6xy$

[2 marks]

Question 10a

Factorise $6m - 9$

[1 mark]

Question 10b

Factorise fully $2x^2y + 4xy^2$

[2 marks]

Question 11a

Simplify fully $\frac{n^7 \times n^3}{n^6}$

[2 marks]

Question 11b

Expand and simplify $x(x - 2) + 2x(x + 3)$

[2 marks]

Question 11c

Factorise $5y - 15$

[1 mark]

Question 11d

Factorise fully $18ab + 27ab^2$

[2 marks]

Question 12

Factorise completely $8x^2 + 4xy$

[2 marks]

Question 13

Factorise completely $6y^2 - 9xy$

[2 marks]

Question 14

Factorise fully $9x^2 - 6xy$

[2 marks]

Question 15

Factorise $y^2 - 2y - 35$

[2 marks]

Question 16

Factorise $x^2 - 11x + 24$

[2 marks]

Question 17

Circle the factor of $x^2 - 5x$

$x - 1$

$-5x$

$x - 5$

$5x$

[1 mark]

Question 18

Factorise $x^2 - 64$

Circle your answer.

$(x + 8)^2$

$(x - 8)^2$

$(x + 8)(x - 8)$

$x(x - 64)$

[1 mark]