

Calculator Questions

Expanding & Factorising Brackets

Expanding & Simplifying Single Brackets / Expanding Double Brackets / Expanding Triple Brackets / Factorising Out Terms / Factorising by Grouping / Factorising Simple Quadratics / Factorising Harder Quadratics / Difference of Two Squares / Deciding the Factorisation Method

Easy (3 questions)	/5
Medium (5 questions)	/11
Hard (6 questions)	/16
Very Hard (6 questions)	/20
Total Marks	/52

Scan here to return to the course
or visit [savemyexams.com](https://www.savemyexams.com)



Easy Questions

1 Factorise completely.

$$4 - 8x$$

(1 mark)

2 Factorise completely

$$3x^2 - 12xy$$

(2 marks)

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

(2 marks)

Medium Questions

1 Factorise completely.

$$3a^2b - ab^2$$

(2 marks)

2 Factorise completely.

i) $6y^2 - 15xy$

[2]

ii) $y^2 - 9x^2$

[2]

(4 marks)

3 Factorise $x^2 - 25$.

(1 mark)

4 Expand and simplify $5(p + 3) - 2(1 - 2p)$

(2 marks)

5 Expand and simplify $(p + 9)(p - 4)$

(2 marks)

Hard Questions

1 Factorise

$$2x + 6 - 3xy - 9y$$

(2 marks)

2 Factorise $24 + 5x - x^2$.

(2 marks)

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

(2 marks)

4 Factorise $5m^2 - 20p^4$.

(3 marks)

5 Factorise $12ab^3 + 18a^3b^2$.

(2 marks)

6 Factorise.

i) $2mn + m^2 - 6n - 3m$

[2]

ii) $4y^2 - 81$

[1]

iii) $t^2 - 6t + 8$

[2]

(5 marks)

Very Hard Questions

1 Expand and simplify.

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

(3 marks)

2 Write $(x + 1)(x - 3)^2$ in the form $ax^3 + bx^2 + cx + d$.

(3 marks)

3 Expand and simplify.

$$(y + 3)(y - 4)(2y - 1)$$

(3 marks)

4 Factorise completely.

i) $15p^2q^2 - 25q^3$

[2]

ii) $4fg + 6gh + 10fk + 15hk$

[2]

iii) $81k^2 - m^2$

[2]

(6 marks)

5 Factorise $3x^2 + 11x - 20$

(2 marks)

6 Factorise completely.

$$2t^2 - 98m^2$$

(3 marks)