

Factorising into single brackets

Please write clearly in block capitals

Forename:

Surname:

Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1 Factorise the following expressions:

(Level 3)

1(a) $7x + 21$

[1 mark]

Answer _____

1(b) $8y - 10$

[1 mark]

Answer _____

1(c) $7p + 63$

[1 mark]

Answer _____

1(d) $24m - 40$

[1 mark]

Answer _____

1(e) $40z + 72$

[1 mark]

Answer _____

Turn over for next question

2 Factorise the following expressions:

2(a)

$$2x^2 + 12x$$

(Level 3)

[1 mark]

Answer _____

2(b)

$$5y^2 + 15y$$

[1 mark]

Answer _____

2(c)

$$64m^2 + 10m$$

[1 mark]

Answer _____

2(d)

$$99p^2 + 11p$$

[1 mark]

Answer _____

2(e)

$$34x^2 + 30x$$

[1 mark]

Answer _____

Turn over for next question

3 Factorise the following expressions.

3(a)

$$10xy + 5x$$

(Level 4)

[1 mark]

Answer

3(b)

$$12x^2p + 9x$$

[1 mark]

Answer

3(c)

$$30x^2p + 18x^2$$

[1 mark]

Answer

3(d)

$$50xyz + 25xz$$

[1 mark]

Answer

3(e)

$$10x^2 - 6xy^2$$

[1 mark]

Answer

Turn over for next question

4(a) Fully factorise the following expression.

(Level 4)

$$6x^2 - 15x$$

Select the correct option below.

[1 mark]

$3x(2x - 5)$

$3(2x^2 - 5x)$

$3x^2(2 - 5)$

$6x(x - 3)$

4(b) Fully factorise the following expression.

$$8yz^2 - 16y^3$$

Select the correct option below.

[1 mark]

$8y(z^2 - 2y)$

$8y(z^2 - 2y^2)$

$8y^2(z^2 - 2y^2)$

$8yz(z - 2y^2)$

4(c) Fully factorise the following expression

$$6bc^2 - 15b^2c$$

Select the correct option below.

[1 mark]

$3bc(3c + 12b)$

$3bc(2c - 5b)$

$6bc(c - 9b)$

$bc(5c - 14b)$



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5(a) Fully factorise the following expression:

(Level 4)

$$6x^2y + 9x^2 - 15x$$

[2 marks]

Answer _____

5(b) Fully factorise the following expression:

$$3xy^2z - 6x^2yz^2 - 9xz^2$$

[2 marks]

Answer _____

5(c) Fully factorise the following expression:

$$20b^2c + 28bc^2 - 4c$$

[2 marks]

Answer _____

End of questions