

Expanding 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 Expand the following:

(Level 3)

1(a) $2(e - 8)$

[1 mark]

Answer _____

1(b) $4(c - 6)$

[1 mark]

Answer _____

1(c) $4(d + 7)$

[1 mark]

Answer _____

1(d) $6(t + 7)$

[1 mark]

Answer _____

1(e) $2(3p - 8)$

[1 mark]

Answer _____

Turn over for next question

Turn over ►

2 Expand the following:

(Level 3)

2(a) $2p(p - 9)$

[1 mark]

Answer _____

2(b) $6a(a + 4)$

[1 mark]

Answer _____

2(c) $5h(3h - 2)$

[1 mark]

Answer _____

2(d) $2e(2e + 9)$

[1 mark]

Answer _____

2(e) $2p(5p - 4)$

[1 mark]

Answer _____

Turn over for next question

Turn over ►

3(a) Which of the following is the expanded form of $5(3a - 8)$ (Level 3)
[1 mark]

$8a - 3$

$15a - 13$

$15a - 40$

$25a$

3(b) Which of the following is the expanded form of $5x(3x + 10y)$ **[1 mark]**

$15x^2 + 50xy$

$15x + 50xy$

$8x^2 + 15xy$

$8x + 15xy$

3(c) Which of the following is the expanded form of $8n(3n^2 + 3n)$ **[1 mark]**

$24n^3$

$24n^2 + 24$

$n^2(n + 24)$

$24n^2 + 24n^3$

3(d) Which of the following is the expanded form of $xy(x + 4)$ **[1 mark]**

$x^2 - 2yx - 24$

$x^2y + 4xy$

$yx^2 - 10x - 24$

$x^2 - 24$



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- 4(a)** Which of the following is the expanded form of $m(m + 5) + m(m + 7)$ (Level 4)
[1 mark]

$m + 12$

$2m^2 + 12$

$2m^2 + 12m$

$2m^2 + 35$

- 4(b)** Which of the following is the expanded form of $a(t + 4) - a(4 - 3t)$ **[1 mark]**

$4at + 4a$

$at + 3t$

$ta - 3t$

$4at$

- 4(c)** Which of the following is the expanded form of $4a^3(7ab - 8b^2)$ **[1 mark]**

$11a^4b - 4a^3b^2$

$28a^4b - 32a^3b^2$

$28a^3b - 32a^3b^2$

$28a^4b^4 - 32a^3b^5$

- 4(d)** Which of the following is the expanded form of $4x(3x - x^2) - 2x^2(4 - 5x)$ **[1 mark]**

$4x^2 + 6x^3$

$12x^2 - 4x^3$

$12x + 8x^2$

$3x(x + 2)$



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Turn over ►

5(a) Expand and simplify the following expressions: (Level 4)

$$5(3x - 7) + 3(x + 2)$$

[2 marks]

Answer _____

5(b) $y(2y + 3) - y(2y - 3)$ [2 marks]

Answer _____

5(c) $7x(8x - 3) - 2x(x + 10)$ [2 marks]

Answer _____



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6 Expand and simplify the following expression (Level 4)

$$6xy(2x - 4) - 4(5x^2y - 8xy)$$

[2 marks]

Answer _____

7 Mr Jenkins walks x km to work each day. (Level 5)

Mr Taylor cycles twice as far as Mr Jenkins and then an additional 5 km more to get to work.

They both return home after making the same journey back.

7(a) Write the expression, in the form $a(bx + 5)$, for how far Mr Taylor cycles each day.

[2 marks]

Answer _____

7(b) Expand the expression for Mr Taylor.

[1 mark]

Answer _____

End of questions