

## Expanding Double Brackets

Please write clearly in block capitals

Forename:

Surname:

### Materials

For this paper you must have:

- mathematical instruments



You *can* 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:

1(a)  $(x + 5)(x - 7)$

[1 mark]

Answer \_\_\_\_\_

1(b)  $(x + 5)(x - 3)$

[1 mark]

Answer \_\_\_\_\_

1(c)  $(x + 7)(x - 7)$

[1 mark]

Answer \_\_\_\_\_

1(d)  $(x - 5)(x + 6)$

[1 mark]

Answer \_\_\_\_\_

1(e)  $(x + 8)(x + 1)$

[1 mark]

Answer \_\_\_\_\_

Turn over for next question

Turn over ►

**2** Expand the following:

**2(a)**  $(2x + 2)(4x - 6)$

[1 mark]

Answer \_\_\_\_\_

**2(b)**  $(7x - 8)(2x + 8)$

[1 mark]

Answer \_\_\_\_\_

**2(c)**  $(8x + 3)(5x - 1)$

[1 mark]

Answer \_\_\_\_\_

**2(d)**  $(2x + 3)(7x + 3)$

[1 mark]

Answer \_\_\_\_\_

**2(e)**  $(3x - 1)(6x - 8)$

[1 mark]

Answer \_\_\_\_\_

**Turn over for next question**

Turn over ►

**3** Expand the following:

**3(a)**  $(5x - 3)(-4x + 2)$

[1 mark]

Answer \_\_\_\_\_

**3(b)**  $(4x + 4)(-3x + 1)$

[1 mark]

Answer \_\_\_\_\_

**3(c)**  $(3x - 2)(-4x - 5)$

[1 mark]

Answer \_\_\_\_\_

**3(d)**  $(-4x - 1)(3x + 7)$

[1 mark]

Answer \_\_\_\_\_

**3(e)**  $(8x - 5)(-x + 8)$

[1 mark]

Answer \_\_\_\_\_

**Turn over for next question**

Turn over ►

4 Expand the following double brackets:

4(a)  $(x + 5)(x - 7) - (x + 2)^2$

[2 marks]

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Answer \_\_\_\_\_

4(b)  $(x + 2)^2 + (2x + 2)^2$

[2 marks]

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Answer \_\_\_\_\_

4(c)  $(x + 7)^2 + (3x - 2)(x + 1) - x$

[2 marks]

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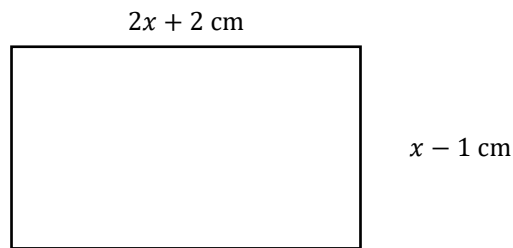
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Answer \_\_\_\_\_

Turn over for next question

Turn over ►

- 5 A rectangle is shown below.



Find an expression for area of the rectangle.

[2 marks]

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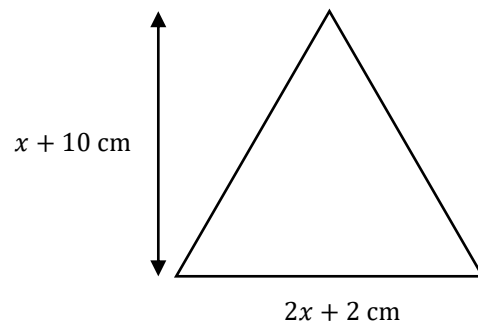


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Answer \_\_\_\_\_

- 6 A triangle is shown below.

(Level 5)



Find an expression for area of the triangle.

[2 marks]

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Answer \_\_\_\_\_

- 7** A cinema discovers that when tickets are £7, all 220 seats are filled.  
 Ticket price rises occur in 50p increases.  
 For every ticket price increase of 50p, 10 fewer people attend a film.  
 The expression for this is  $(0.5x + 7)(220 - 10x)$

- 7(a)** Expand the brackets for this equation.

[2 marks]

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Answer \_\_\_\_\_

- 7(b)** Find out the total earned, if the manager increases the price of the ticket five times.

[2 marks]

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Answer \_\_\_\_\_



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