

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Here are a set of algebra tiles:



There is an additional page of squared paper should you need it.

**Section A** *Perfect Squares*  
 Draw each expression as algebra tiles arranged in a square and hence factorise each expression.

**Example**  $x^2 + 8x + 16$

$(x + 4)^2$

1)  $x^2 + 10x + 25$

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2)  $x^2 - 6x + 9$

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**Section B** Draw algebra tiles arranged in a square and write each expression in the form  $(x + a)^2 + b$ .

**Example**  $x^2 + 8x + 15$

$(x + 4)^2 - 1$

1)  $x^2 + 10x + 20$

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2)  $x^2 - 6x + 14$

\_\_\_\_\_

3)  $x^2 + 2x + 11$

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**Section C** Draw algebra tiles arranged in a square and write each expression in the form  $(x + a)^2 + b$ .

**Example**  $x^2 + 4x - 7$

$(x + 2)^2 - 11$

1)  $x^2 + 2x - 3$

\_\_\_\_\_

2)  $x^2 - 12x - 4$

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