

7 (a) Expand $4x(x - 5)$

$$4x(x - 5)$$

$$4x^2 - 20x$$

(1)

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5 (a) Expand $3c^3(c + 4)$

$$3c^3 (c + 4)$$

$$3c^4 + 12c^3$$

(2)



P 6 8 7 8 9 A 0 7 2 8

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3

(b) Expand and simplify $2n(4n + 3) + n(n - 4)$

$$\begin{aligned} & 2n(4n + 3) + n(n - 4) \\ & 8n^2 + 6n + n^2 - 4n \\ & 9n^2 + 2n \end{aligned}$$

(2)



P 7 5 9 3 4 A 0 5 2 8

5

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- 5 (a) Expand and simplify $4x(2x + 5) - 3x(2x - 3)$

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

$$8x^2 + 20x - 6x^2 + 9x$$

(2)

$$2x^2 + 29x$$



P 6 6 3 0 1 A 0 7 2 8

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

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

$$6x^2 + 9x - 3x^2 - 5x$$

$$3x^2 + 4x$$

(2)

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1

(c) Expand $4t(3t-2)$

$$12t^2 - 8t$$

(d) Expand and simplify $(5x-2)(x+4)$

$$5x^2 + 20x - 2x - 8$$

$$5x^2 + 18x - 8$$

(2)

(2)



P 6 6 3 0 2 A 0 3 2 4

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- 1 (b) Expand and simplify $(x-3)(x+1)$

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

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

$$x^2 - 2x - 3$$

(2)

(Total for Question 1 is 3 marks)



P 6 5 9 1 5 R A 0 3 2 4

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- 4 (a) Expand and simplify $3(c - 7) + 2(3c + 4)$

$$\begin{aligned} & 3(c - 7) + 2(3c + 4) \\ & 3c - 21 + 6c + 8 \\ & 9c - 13 \end{aligned}$$

(2)

- (b) Expand and simplify $(x + 7)(x - 2)$

$$\begin{aligned} & (x + 7)(x - 2) \\ & x^2 - 2x + 7x - 14 \\ & x^2 + 5x - 14 \end{aligned}$$

(2)

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P 5 9 0 1 4 A 0 5 2 4

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- 1 (b) Expand and simplify $(x + 5)(x - 7)$

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

$$x^2 - 7x + 5x - 35$$

$$x^2 - 2x - 35$$

.....
(2)



P 7 2 8 2 9 A 0 3 2 8

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- 6 (a) Expand and simplify $(m + 5)(m - 8)$

$$(m+5)(m-8)$$

$$m^2 - 8m + 5m - 40$$

$$m^2 - 3m - 40$$

(2)



P 7 3 9 9 0 A 0 7 2 8

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You must write down all the stages in your working.

- 1 (a) Expand and simplify $(y + 4)(2 - y)$

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

$$2y - y^2 + 8 - 4y$$

$$-y^2 - 2y + 8$$

(2)



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- 1 (b) Expand and simplify $(e + 3)(e - 5)$

$$(e+3)(e-5)$$

$$e^2 - 5e + 3e - 15$$

$$e^2 - 2e - 15$$



P 5 9 0 1 7 A 0 3 2 8

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

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

$$x^2 - 5x + 2x - 10$$

$$x^2 - 3x - 10$$

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- 3 (c) Expand and simplify $(x + 9)(x - 2)$

$$(x + 9)(x - 2)$$

$$x^2 - 2x + 9x - 18$$

$$x^2 + 7x - 18$$

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(2)



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- 5 (a) Expand and simplify $(n - 6)(n + 4)$

$$(n-6)(n+4)$$

$$n^2 + 4n - 6n$$

$$n^2 - 2n - 24$$

.....
(2)



P 6 8 7 9 6 A 0 7 2 8

- 7 (a) Expand and simplify $(m - 8)(m + 5)$

$$\begin{aligned} & (m-8)(m+5) \\ & m^2 + 5m - 8m - 40 \\ & m^2 - 3m - 40 \end{aligned}$$

(2)

$x =$
(4)

(Total for Question 7 is 9 marks)



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- 14 (b) Expand and simplify $(3x - 4y)(x + 3y)$

$$(3x - 4y)(x + 3y)$$

$$3x^2 + 9xy - 4xy - 12y^2$$

$$3x^2 + 5xy - 12y^2$$

.....
(2)



P 5 9 0 1 2 A 0 1 3 2 4