Algebra 1 Factoring Quadratics: Exit Ticket

Common Core HSA-SSE.A.2 8 questions Total: 10 marks **Questions 3–8 on the back**

GAFAC1

NAME or INITIALS (BLOCK CAPITALS)

ANSWER KEY — not for students, do not scan

ANSWERS — final answer in each box. Only these boxes are marked.

1	$(x+2)(x+3)$	2	$(x+3)(x+4)$	3	$(x-4)(x+3)$	4	$(x-4)(x-5)$
5	$(x-7)(x+7)$	6	$(x+6)(x-4)$	7	$(2x+1)(x+3)$	8	$(3x+2)(x-4)$

1 Factor completely: **1 mark**

$$x^2+5x+6$$

$$(x+2)(x+3)$$

2 Factor completely: **1 mark**

$$x^2+7x+12$$

$$(x+3)(x+4)$$

CUT HERE

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3 Factor completely: **1 mark**

$$x^2 - x - 12$$

$$\boldsymbol{(x-4)(x+3)}$$

6 Factor completely: **1 mark**

$$x^2 + 2x - 24$$

$$\boldsymbol{(x+6)(x-4)}$$

4 Factor completely: **1 mark**

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

$$\boldsymbol{(x-4)(x-5)}$$

7 Factor completely: **2 marks**

$$2x^2 + 7x + 3$$

$$\boldsymbol{(2x+1)(x+3)}$$

5 Factor completely: **1 mark**

$$x^2 - 49$$

$$\boldsymbol{(x-7)(x+7)}$$

8 Factor completely: **2 marks**

$$3x^2 - 10x - 8$$

$$\boldsymbol{(3x+2)(x-4)}$$

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