Unicorn Race: Quadratics 1

Time: 15 min Total: 12 marks

QUAD-1B

NAME or INITIALS (BLOCK CAPITALS, one letter per box)

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

1		**2**		**3**	
4		**5**		**6**	

1 Factorise fully: **1 mark**

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

answer in box 1 above

2 Factorise fully: **2 marks**

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

answer in box 2 above

3 Factorise fully: **1 mark**

$$x^2 - 8x + 16$$

answer in box 3 above

4 Solve: **2 marks**

$$x^2 - x - 12 = 0$$

answer in box 4 above

5 Solve: **3 marks**

$$2x^2 - 3x - 2 = 0$$

answer in box 5 above

6 Solve: **3 marks**

$$3x^2 + x - 2 = 0$$

answer in box 6 above

Work in the space under each question. Only the answer boxes above are marked.