Algebra 1 Solving Quadratic Equations: Factoring and the Quadratic Formula

Common Core HSA-REI.B.4 Time: 35 min Total: 21 marks Two-sided: questions continue on the back

GAQUA1

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**

7 **8** **9**

10

1 Solve: **1 mark**

$$(x-3)(x+5)=0$$

answer in box 1 on the front

2 Solve: **1 mark**

$$x^2-16=0$$

answer in box 2 on the front

3 Solve: **2 marks**

$$x^2+6x+8=0$$

answer in box 3 on the front

4 Solve: **2 marks**

$$x^2-5x=0$$

answer in box 4 on the front

Questions continue on the back. Only the answer boxes above are marked.

Teachers: have this class set marked in a minute and race it live, free.
Scan the QR code or go to **instantmathsheets.com/r/GAQUA1**

5 Solve: **2 marks**

$$x^2 - 2x - 15 = 0$$

answer in box 5 on the front

6 Solve: **2 marks**

$$2x^2 + 5x - 3 = 0$$

answer in box 6 on the front

7 Solve: **2 marks**

$$x^2 = 3x + 10$$

answer in box 7 on the front

8 Solve: **3 marks**

$$3x^2 - 7x + 2 = 0$$

answer in box 8 on the front

9 Solve using the quadratic formula: **3 marks**

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

answer in box 9 on the front

10 A rectangle's length is 3 cm more than its width. Its area is 40 cm^2. How wide is it, in cm? **3 marks**

answer in box 10 on the front