

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 10 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Solving Quadratics by Factoring

Solve each equation. Give all values of the variable.

1.  $(3r)(5r - 12) = 0$

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6.  $(4z + 10)(2z + 7) = 0$

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2.  $(6x + 10)(6x + 10) = 0$

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7.  $(4r + 6)(2r + 12) = 0$

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3.  $(c + 4)(c + 10) = 0$

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8.  $(5n + 5)(4n - 5) = 0$

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4.  $(n - 10)(n + 10) = 0$

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9.  $(6z + 6)(z + 2) = 0$

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5.  $(3c + 11)(6c - 4) = 0$

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10.  $(a - 10)(4a + 4) = 0$

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# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 10 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Solving Quadratics by Factoring

### Answer Key

Solve each equation. Give all values of the variable.

1.  $(3r)(5r - 12) = 0$

$$r = 0 \text{ or } r = \frac{12}{5}$$

6.  $(4z + 10)(2z + 7) = 0$

$$z = -\frac{7}{2} \text{ or } z = -\frac{5}{2}$$

2.  $(6x + 10)(6x + 10) = 0$

$$x = -\frac{5}{3}$$

7.  $(4r + 6)(2r + 12) = 0$

$$r = -6 \text{ or } r = -\frac{3}{2}$$

3.  $(c + 4)(c + 10) = 0$

$$c = -10 \text{ or } c = -4$$

8.  $(5n + 5)(4n - 5) = 0$

$$n = -1 \text{ or } n = \frac{5}{4}$$

4.  $(n - 10)(n + 10) = 0$

$$n = -10 \text{ or } n = 10$$

9.  $(6z + 6)(z + 2) = 0$

$$z = -2 \text{ or } z = -1$$

5.  $(3c + 11)(6c - 4) = 0$

$$c = -\frac{11}{3} \text{ or } c = \frac{2}{3}$$

10.  $(a - 10)(4a + 4) = 0$

$$a = -1 \text{ or } a = 10$$