Name : _____ Score : _____

Factoring Quadratic Expressions

ES1

Factorize each quadratic expression.

1) $p^2 - 5p + 4$

2) $m^2 + 3m - 10$

3) $s^2 + 5s + 6$

4) $u^2 - 8u + 15$

5) $x^2 - 7x - 8$

6) $q^2 + 8q + 7$

7) $n^2 + n - 42$

8) $v^2 - 6v + 5$

9) $z^2 - 7z + 12$

10) $a^2 - 3a - 18$

Name : _____ Score : _____

Answer key

Factoring Quadratic Expressions

ES1

Factorize each quadratic expression.

1) $p^2 - 5p + 4$

(p – 4)(p – 1)

2) $m^2 + 3m - 10$

(m + 5)(m – 2)

3) $s^2 + 5s + 6$

(s + 3)(s + 2)

4) $u^2 - 8u + 15$

(u – 3)(u – 5)

5) $x^2 - 7x - 8$

(x – 8)(x + 1)

6) $q^2 + 8q + 7$

(q + 1)(q + 7)

7) $n^2 + n - 42$

(n + 7)(n – 6)

8) $v^2 - 6v + 5$

(v – 5)(v – 1)

9) $z^2 - 7z + 12$

(z – 3)(z – 4)

10) $a^2 - 3a - 18$

(a – 6)(a + 3)

Name : _____ Score : _____

ES2

Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $y^2 - 6y + 9$

2) $b^2 - b - 30$

3) $r^2 + 2r - 24$

5) $z^2 - 9z + 14$

7) $m^2 + 2m -$

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13

30

9) $u^2 + u - 56$

10) $p^2 - 2p - 3$

Name : _____ Score : _____

Answer key

ES2

Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $y^2 - 6y + 9$

$(y - 3)^2$

2) $b^2 - b - 30$

$(b + 5)(b - 6)$

3) $r^2 + 2r - 24$

$(r + 6)(r - 4$

5) $z^2 - 9z + 14$

$(z - 2)(z - 7$

7) $m^2 + 2m -$

$(m + 3)(m - 1)$

9) $u^2 + u - 56$

$(u + 8)(u - 7)$

10) $p^2 - 2p - 3$

$(p - 3)(p + 1)$

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ES3

Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $a^2 + 6a - 7$

2) $c^2 - 9c + 14$

3) $s^2 - 6s - 7$

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5) $p^2 + 8p - 2$

7) $m^2 - m - 1$

9) $d^2 + 4d + 3$

10) $t^2 - 10t + 25$

Name : _____ Score : _____

Answer key

ES3

Factoring Quadratic Expressions

Factorize each quadratic expression.

1) $a^2 + 6a - 7$

(a + 7)(a – 1)

2) $c^2 - 9c + 14$

(c – 2)(c – 7)

3) $s^2 - 6s - 7$

(s – 7)(s +

27

9)

5) $p^2 + 8p - 2$

(p + 10)(p

1)

7) $m^2 - m - 1$

22

(m – 4)(m + 3)

(n + 11)(n + 2)

9) $d^2 + 4d + 3$

(d + 3)(d + 1)

10) $t^2 - 10t + 25$

$(t - 5)^2$

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