What Do You Call a Sore on a Police Officer's Foot ?

Factor completely each polynomial below. Find your answer and notice the letter next to it. Write this letter in the box containing the number of that exercise.

(1) $3x^2 - 15x + 18$

(2) $x^3 + 11x^2 + 10x$

(3) $8x^3 - 18x$

(4) $5x^3 - 40x^2 + 60x$

(5) $4x^2 + 8x - 60$

(6) $2x^3 - 20x^2 - 48x$

(7) $4m^2 - 18m + 14$

(8) $15m^3 + 24m^2 + 9m$

(9) $15m^2 - 10m - 25$

(10) $50m^3 - 2m$

(11) $3m^2 - 10m + 8$

(12) $60m^3 + 54m^2 - 6m$

Answers:

(I) $5x(x + 3)(x - 4)$

(N) $2x(2x + 3)(2x - 3)$

(L) $2x(x + 6)(x - 4)$

(O) $3(x - 2)(x - 3)$

(C) $4(x + 5)(x - 3)$

(A) $x(x + 5)(x + 3)$

(S) $4(x + 5)(x - 1)$

(E) $x(x + 10)(x + 1)$

(H) $2x(x - 12)(x + 2)$

(O) $5x(x - 2)(x - 6)$

(R) $2x(4x + 9)(x + 1)$

Answers:

(O) $3m(5m + 3)(m + 1)$

(S) $5(3m + 1)(m - 5)$

(R) $(3m - 4)(m - 2)$

(F) $2(2m + 1)(m + 7)$

(T) $5(3m - 5)(m + 1)$

(M) $6m(5m - 1)(2m - 1)$

(H) $3m(5m + 2)(m - 1)$

(N) $2(2m - 7)(m - 1)$

(P) $2m(5m + 1)(5m - 1)$

(C) $6m(10m - 1)(m + 1)$

(L) $(3m - 2)(m + 4)$

5	8	11	7	1	3	9	6	2	12	4	10

OBJECTIVE 3-q: To factor polynomials completely
(excludes factoring by grouping).