

1. Simplify
 - a. $3x + 5x + 4x + 8x$
 - b. $7m + 5m + 9m + m$
 - c. $p + 3p + p + 8p$
 - d. $11f + 7f + 2f + 2f$
 - e. $y + 2y + 3y + 4y$

2. Workout
 - a. $14b - 3b - b - 7b$
 - b. $5n + 3n - 2n - 7n$
 - c. $4x - 2x - x + 5x$
 - d. $-2g - 3g - g - 6g$
 - e. $2a - 5a + 2a - a$

3. Write in the simplest form
 - a. $6ab - 2ba + 5ab - ba$
 - b. $7xy + 4x - 3y + 2xy$
 - c. $6fg - 3gf + 6f - 3f$
 - d. $7as + 4sa - 6as + 3sa$
 - e. $5bd - 3bg + 4dg - 6d$

4. Collect terms and simply
 - a. $2x^2 - 5x + 4x + 8x^2$
 - b. $3a - 4a^2 + 6a - 7 + 2a^2$
 - c. $5t^2 - 3 + 7t + 5 - 6t$
 - d. $-5y + 4y^2 + 3xy + 2x^2 - 2y$
 - e. $3xy^2 - 2x^2y + 5xy - 3y^2x + 4x^2y$

5. Simplify the expression
 - a. $7m^2 + 3n^2 - 5mn + n^2$
 - b. $3a - a^2 + 5 - 4a^2 - 11$
 - c. $5x^2 + x^2 - 5 + 4x - 1$
 - d. $-bd + 3d^2b - db + 5bd^2$
 - e. $pqr - 2qpr + rpq + prq - 5qrp$

6. Workout and simplify
 - a. $5x^3 + 2x + 4x^2 - 8x + 3x^3$
 - b. $7m - 5m^3 + 2m^2 + 6m^3 - 8m$
 - c. $a^3 + a - a^2 + a^3 + a^3 - a^2$
 - d. $5x^4y + 2x^3y^2 - yx^4 - y^3x^2$
 - e. $6st^2 - 3ts^2 + st^2 - 5st^2 - 6s^2t$

7. Expand and simplify
 - a. $3a(4 - 3a) + 6a^2 + 4$
 - b. $6m^2 - m(m - 4) + 3m$
 - c. $7s + 3s(2s + 1) - 6s$
 - d. $4t^2 + 5 - 2t(5 + 3t)$
 - e. $7 - 4(3 - 2t) + 3t$

8. Multiply out and collect terms
 - a. $4p(3p - 3) + 5(2 - 4p)$
 - b. $6s + 5(s - 3) + 2s(4 - 5s)$
 - c. $2m(3a + m) - 4a(2a - 5m)$
 - d. $3q^2 - 2q(5q - 3) - 5q(2 - 4q)$
 - e. $5r(3s + 2r) + 4s^2 - 3(s^2 + r^2) + 2rs$

9. Remove the brackets and simply
 - a. $3x(2x + x^2) - 4(x^2 - x) + x^3$
 - b. $6t^3 + 2t(3 - 5t + 2t^2) - 4t^2$
 - c. $-7t^2(5 - 2t) - 3t^3 - 4t^2$
 - d. $4a(a - 3a^2) + 3a^2(a - 1)$
 - e. $5p^3(4) - 2p(3 - p^2) + 5p^2$

10. Write in the simplest form
 - a. $(2t - 1)(4 + t)$
 - b. $(5r + 2)(3r - 2)$
 - c. $(4d - 3)(3 - d)$
 - d. $(1 - 5a)(2 - a)$
 - e. $(2x + 3)(4x - 7)$

11. Expand the brackets and collect terms
 - a. $2(5p + 3)(4 - p)$
 - b. $-3(2 - x)(3x + 5)$
 - c. $2s(4 + s)(3s + 4)$
 - d. $3a(2b - 3)(4c + 1)$
 - e. $-3m(5 - 2m)(5m - 4)$

12. Workout and simplify
 - a. $(2a + 1)(5a - 2)(a + 3)$
 - b. $(4x - 5)(2y + 1)(x - 3)$
 - c. $(s + 1)(s - 1)(1 - s)$
 - d. $(3x - 2)(2x + 3)(5x - 1)$
 - e. $(m + 2)(m - 3)(m + 1)$