

Name : \_\_\_\_\_

## Simplify: Multi-variable Expressions

ES3

Simplify each expression.

1)  $5c + 7d - 2c - 3d$

2)  $2uv + 3uv + u - u$

3)  $3m^3n^3 + 1 + m^3n^3 + 17$

4)  $-5x^2y^2z + 7xy - x^2y^2z - 5xy$

5)  $8p^2q^2r^2 - 7$

$2 - 3a^2 + 3b^2 + 2c^2$

7)  $2u^3v - 5uv$

$qr - 8pqr - 12pq$

9)  $8xy + 4xy -$

$+ 2 - mn^2 - 5$

11)  $15 - 6a^2b^2c + 8a^2b^2c - 10$

12)  $-xy^3 + 7 + 4xy^3$

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