

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

$qr - 8pqr - 12pq$

9) $8xy + 4xy -$

$+ 2 - mn^2 - 5$

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

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

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Name : _____

Answer key

ES3

Simplify: Multi-variable Expressions

Simplify each expression.

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

$3c + 4d$

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

$5uv$

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

$4m^3n^3 + 18$

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

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

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

$p^2q^2r^2 + q^2$

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

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

$9u^3v + 4uv^2$

$qr - 8pqr - 12pq$

9) $8xy + 4xy - 2mn^2 - 5$

$12xy + 9$

$4mn^2 + 8m - 3$

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

$2a^2b^2c + 5$

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

$3xy^3 + 7$