

Name : _____

Simplify: Multi-variable Expressions

ES5

Simplify each expression.

1) $4pq + 2qr + pq + 3qr$

2) $-2x^2yz^2 + 7xyz - x^2yz^2 - 5xyz$

3) $8u^6v^3 + 3 - 8 - 5u^6v^3$

4) $g^4h - 2 + 3g^4h + 9$

5) $xy^2 + 4xy^2$

$-5s^2tu^2 - 6$

7) $2mn^3 + 5$

$w^4 + 4x^4 + 8 - 4$

9) $b^6c - 2cd^4$

$6y^2 - z^4$

11) $5p^2 - 5q^2 + 6 - p^2 + 7q^2 + 8$

12) $a^2bc + 3 + 7a^2bc - 7$

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Name : _____

Answer key

Simplify: Multi-variable Expressions

ES5

Simplify each expression.

1) $4pq + 2qr + pq + 3qr$

$5pq + 5qr$

2) $-2x^2yz^2 + 7xyz - x^2yz^2 - 5xyz$

$2xyz - 3x^2y^2z$

3) $8u^6v^3 + 3 - 8 - 5u^6v^3$

$3u^6v^3 - 5$

4) $g^4h - 2 + 3g^4h + 9$

5) $xy^2 + 4xy^2$

$5xy^2 + 6$

$-5s^2tu^2 - 6$

7) $2mn^3 + 5$

$mn^3 - 1$

$W^4 + 4x^4 + 8 - 4$

9) $b^6c - 2cd^4$

$b^6c - 4cd^4 + 5bc$

4
 $6y^2 - z^4$

11) $5p^2 - 5q^2 + 6 - p^2 + 7q^2 + 8$

$4p^2 + 2q^2 + 14$

12) $a^2bc + 3 + 7a^2bc - 7$

$8a^2bc - 4$

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