

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

## Simplifying Expressions: Exponents

MS2

Simplify each expression.

1)  $(7u^9v^6w^8)(9u^3vw^7)$

2)  $\frac{100m^{17}n^{19}}{5m^{12}n^{13}}$

3)  $(-x^3y^4)^3(-5x^2y^2)$

4)  $12a^7b^2c$

5)  $\frac{25u^6v^7}{20u^2v^{15}}$

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6)  $(x^6y^7z^4)(3x^4y^2z^7)$

7)  $(-15b^2c^4d^5)$

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9)  $\frac{9q^2r^4}{45qr}$

10)  $\frac{36x^7y^3z^{12}}{2x^2yz^4}$

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**Answer key**

**Simplifying Expressions: Exponents**

MS2

Simplify each expression.

1)  $(7u^9v^6w^8)(9u^3vw^7)$

**$63u^{12}v^7w^{15}$**

2)  $\frac{100m^{17}n^{19}}{5m^{12}n^{13}}$

**$20m^5n^6$**

3)  $(-x^3y^4)^3(-5x^2y^2)$

**$-25x^{13}y^{14}$**

4)  $12a^7b^2c$

5)  $\frac{25u^6v^7}{20u^2v^{15}}$

**$\frac{5u^4}{4v^8}$**

7)  $(-15b^2c^4d^5)$

**$-60b^4c^{10}d^{10}$**

9)  $\frac{9q^2r^4}{45qr}$

**$\frac{1}{5}qr^3$**

10)  $\frac{36x^7y^3z^{12}}{2x^2yz^4}$

**$18x^5y^2z^8$**

**PREVIEW**

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