

Name : _____

Simplifying Expressions: Exponents

MS1

Simplify each expression.

1) $(2u^7v^5w^2)(5u^3v^4w^2)$

2) $\frac{-2x^7y^2z^3}{6x^2y^4z^6}$

3) $\frac{4p^7q^2}{(6pq)^2}$

4) $(9b^{-2}d^3)(10b^3c^2d^6)$

5) $\frac{8a^7b^6c^5}{4a^2b^3c}$

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7) $(4m^2n^5)(2m^3n^4)$

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9) $\frac{4s^6t^3}{18s^2t^5}$

10) $\frac{25p^7q^5r^2}{5p^2qr}$

Name : _____

Answer key

Simplifying Expressions: Exponents

MS1

Simplify each expression.

1) $(2u^7v^5w^2)(5u^3v^4w^2)$

$10u^{10}v^9w^4$

2) $\frac{-2x^7y^2z^3}{6x^2y^4z^6}$

$\frac{-x^5}{3y^2z^3}$

3) $\frac{4p^7q^2}{(6pq)^2}$

$\frac{1}{9}p^5$

4) $(0.5^{-2}d^3)(10b^3c^2d^6)$

5) $\frac{8a^7b^6c^5}{4a^2b^3c}$

$2a^5b^3c^4$

7) $(4m^2n^5)(2m^3n^3)$

$96m^7n^{15}$

9) $\frac{4s^6t^3}{18s^2t^5}$

$\frac{2s^4}{9t^2}$

10) $\frac{25p^7q^5r^2}{5p^2qr}$

$5p^5q^4r$

PREVIEW

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