

Name : _____

Simplifying Expressions: Exponents

MS3

Simplify each expression.

1) $(-5x^2y^4)(2x^3y^2)^2$

2) $\frac{5a^8b^2c^9}{25a^3bc^3}$

3) $\frac{72p^7qr^5}{6pq^2r}$

4) $25m^7n^8$

5) $\frac{26b^7c^9d^3}{2b^3c^2d}$

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7) $\frac{3x^{20}y^{12}z^{20}}{18x^4y^9z^{15}}$

9) $(11s^6t^2)(4s^3t^2)$

10) $(-2a^3b^6c^2)(3a^2b^5c^4)(4a^3b^8c^5)$

Name : _____

Answer key

Simplifying Expressions: Exponents

MS3

Simplify each expression.

1) $(-5x^2y^4)(2x^3y^2)^2$

$-20x^8y^8$

2) $\frac{5a^8b^2c^9}{25a^3bc^3}$

$\frac{1}{5}a^5bc^6$

3) $\frac{72p^7qr^5}{6pq^2r}$

$\frac{12p^6r^4}{q}$

4) $25m^7n^8$

5) $\frac{26b^7c^9d^3}{2b^3c^2d}$

$13b^4c^7d^2$

7) $\frac{3x^{20}y^{12}z^{20}}{18x^4y^9z^{15}}$

$\frac{1}{6}x^{16}y^3z^5$

9) $(11s^6t^2)(4s^3t^2)$

$44s^9t^4$

10) $(-2a^3b^6c^2)(3a^2b^5c^4)(4a^3b^8c^5)$

$-24a^8b^{19}c^{11}$

PREVIEW

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