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8.EE.A.1 Division of Integer Exponents

8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

Simplify:

$$1. \quad \frac{12x^7y^4}{-6x^2y^5}$$

$$5. \quad \frac{42x^4y}{-7xy^5}$$

$$2. \quad \frac{-6x^6y^6}{-2x^4y^7}$$

$$6. \quad \frac{-25x^4y^3}{-5x^3y^5}$$

$$3. \quad \frac{-27x^7y^2}{-9x^6y^5}$$

7. Show two ways to use a calculator to find the value of $\frac{3^6}{3^2}$.

 $4. \quad \frac{-32x^6y^5}{-8x^5y^7}$

8. Write b^{12} as a quotient form $\frac{b^m}{b^n}$ in four different ways. Use only positive exponents.

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Answer Key

8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent numerical expressions.

$$[1] \frac{2x^5}{y}$$

$$\frac{3x^2}{}$$

$$\frac{3x}{3}$$

$$[3] \overline{y^3}$$

$$[4] \quad \frac{4x}{y^2}$$

$$[5] - \frac{6x^3}{y^4}$$

$$[6] \frac{5x}{y^2}$$

[8] Answers may vary. Sample:
$$\frac{b^{24}}{b^{12}}$$
, $\frac{b^{14}}{b^2}$, $\frac{b^{13}}{b}$, $\frac{b^{20}}{b^8}$