

## DIFFERENT METHODS, SAME RESULT

In this activity, you and your partner will simplify each expression using different methods. Decide with your partner which method you each will use. Then, circle your selected method and simplify the expression. Check each answer with your partner.

\*Assume all variables are positive.

**1) Method: Exponential or Radical**

$$\sqrt[4]{16x^4y^8z^{15}} =$$

Check your answer with your partner.

**2) Method: Exponential or Radical**

$$\left(-8a^6b^{-12}c^{18}\right)^{\frac{1}{3}} =$$

Check your answer with your partner.

**3) Method: Exponential or Radical**

$$\frac{2^{\frac{2}{3}} \cdot 16^{\frac{2}{3}}}{4^{\frac{2}{3}}} =$$

Check your answer with your partner.

**4) Method: Exponential or Radical**

$$\frac{\sqrt[3]{3} \cdot \sqrt[3]{18}}{\sqrt[6]{2} \cdot \sqrt[6]{2}} =$$

Check your answer with your partner.