

Correct. Rewrite using a rational exponent: $(4a^2b^{40}c^2)^{\frac{1}{4}}$

Use the laws of exponents to rewrite the expression: $4^{\frac{1}{4}} \cdot a^{\frac{2}{4}} \cdot b^{\frac{40}{4}} \cdot c^{\frac{2}{4}}$

Factor 4 and simplify the exponents: $(2^2)^{\frac{1}{4}} \cdot a^{\frac{1}{2}}b^{10}c^{\frac{1}{2}} = 2^{\frac{1}{2}}a^{\frac{1}{2}}b^{10}c^{\frac{1}{2}}$

Change the factors with the exponent $\frac{1}{2}$ back to radical form: $b^{10}\sqrt{2ac}$

The missing radicand in the simplified expression is $2ac$.