

Correct. Factor both terms, find their GCF, and factor it out of the expression.

$$18a^4b^2 = 2 \cdot 3 \cdot 3 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b$$

$$30a^2b^3 = 2 \cdot 3 \cdot 5 \cdot a \cdot a \cdot b \cdot b \cdot b$$

$$\text{GCF} = 2 \cdot 3 \cdot a \cdot a \cdot b \cdot b = 6a^2b^2$$

$$18a^4b^2 + 30a^2b^3 = 6a^2b^2(3a^2) + 6a^2b^2(5b) = 6a^2b^2(3a^2 + 5b)$$

The missing exponent is 2.