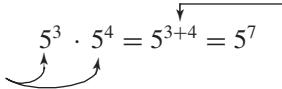


**a.**

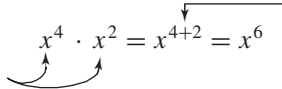
Same base

$$5^3 \cdot 5^4 = 5^{3+4} = 5^7$$


Add exponents.

**b.**

Same base

$$x^4 \cdot x^2 = x^{4+2} = x^6$$


Add exponents.