

Applying Exponent Laws and Order of Operations

$$(5 \times 2)^3 + (2^8 \div 2^5)^4$$

$$(10)^3 + (2^3)^4$$

$$1000 + 2^{12}$$

$$1000 + 4096$$

$$= 5096$$

Class/Homework

$$\begin{aligned} & \frac{(2^2)^4}{2^3 \times (2^0)^4} \\ = & \frac{2^8 \div 2^4}{2^3 \times 2^0} \\ = & \frac{2^4}{2^3 \times 2^0} \\ = & \frac{2^4}{2^3} \end{aligned}$$

$$\frac{(2^3)^4}{(2^3)^2}$$

$$(2^4)^2 \div (2^5 \times 2^3)$$

$$= \frac{2^{12}}{2^8 \div 2^8}$$

$$= \frac{2^6}{2^0}$$

$$= 64$$