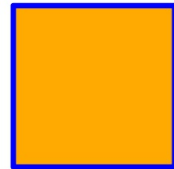○ Get out your Study Guide
○ DHW Check
Box : Power of a Power # 8
Box : Power of a Power # 14

Warm-up

$1. \overline{12} \div \dfrac{1}{3}$

$\left(4^2\right)^0 \div \left(4^{-2}\right)$

$\dfrac{(3)^2 \cdot (3)^{-3} \cdot (3)^4}{2^3 \cdot (3)^{-4} \cdot 2^4}$ ← Simplify Powers

1) $1.\overline{12} \div \frac{1}{3}$

$1\frac{12}{99} \div \frac{1}{3}$

$\frac{111}{99} \div \frac{1}{3}$

$\frac{111}{\underset{33}{99}} \cdot \frac{\cancel{3}^{1}}{1} = \frac{111}{33} = \frac{37}{11}$

2) $(4^2)^0 \div (4^{-2})$

$\frac{1}{\boxed{4^{-2}}} = 4^2 = 16$

3) $\dfrac{(3)^2 \cdot (3)^{-3} \cdot (3)^4}{2^3 \cdot (3)^{-4} \cdot 2^4} = \dfrac{3^2 \cdot 3^4 \cdot \cancel{3}^{\,1}}{2^3 \cdot 2^4 \cdot \cancel{3}^{\,3}} = \dfrac{3^7}{2^7}$

Exponent Review Bingo Game ~ PowerPoint