

Powers and Exponents Final Exam Review #2 - Key

• Order of Operations.

a) Evaluate each expression

$$6144$$

$$-9604$$

b) $6(4)^4$

$$-3(10)^4$$

c) 250

$$1809$$

$$-91$$

$$\frac{-2048}{27}$$

d) $5(4)^3$ is greater by 220

e) $\frac{26^7}{5}$

f) 48cm^2

• Using Exponents to Solve Problems

a) 1.08×10^{15} J

b) 3 hours \rightarrow 96 13 hours \rightarrow 98 304 "n" hours \rightarrow $12(2)^n$

c) 2138.7cm^3

d) 6^5 7776