**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_**

**Math 9**

**Chapter 1 Practice Test**

1. Evaluate the following: (no calculators!)
2. $\sqrt{64}$ b) $\sqrt{169}$

c) $\sqrt{-81}$ d) $-\sqrt{25}$

e) $3^{3}$ f) $6^{0}$

g) $\left(-4\right)^{2}$ h) $-2^{4}$

 i) $-3^{0}$ j) $\sqrt{490000}$

 k) $\sqrt{0.000001}$ l) $\sqrt{1.44}$

 m) $\sqrt{100}+\sqrt{1}$ n) $\sqrt{63^{2}}$

 o) $-\sqrt{5^{2}-3^{2}}$ p) $-3^{2}+4^{0}- \sqrt{9}+1^{7}$

 q) $\sqrt{\frac{4}{25}}$ r) $-\left(-2\right)^{6}$

2) Estimate the following (no calculators):

 a) $\sqrt{111}$ b) $\sqrt{35}$ c) $\sqrt{84.3}$

3) Use BEDMAS to solve:

a) $3^{2}+\left(4-5\right)^{2}$ b) $4-2(3^{2}-2^{2})$

c) $-4^{2}+\frac{2^{3}+1}{3}+10÷5$ d) $5-(3^{0}+2\left[6-2^{2}\right])÷5$

4) Use the exponent laws to simplify:

a) $\frac{4^{2}∙4^{4}}{4^{3}}$ b) $\left[\left(-7\right)^{5}\right]^{6}$ c) $\left(5×n\right)^{4}$

d) $\left(\frac{8^{2}}{m^{4}}\right)^{6}$ e) $\left(3m^{2}n^{3}\right)^{2}$ f) $\left(\frac{2x^{2}}{3y^{3}}\right)^{3}$