Atmospheric Sciences 101 Math Assessment

This is only for helping me design the homeworks/quizzes. NO CALCULATORS. No name needed.

Your High School _____ City and State of your HS_____

1. Arithmetic

- (a) $\frac{1}{0.1} = 10$ 74°/°
- (c) $64^{1/2} =$ 8 64 % 6
- (d) 2⁻² = 1/4 48°10
- (e) $\frac{25*10^3}{5*10^{-5}}$ = 5×10^8 2.5^{-1} o
- (f) 231/7 = (no calculator, to the tenths place) 33 57%

2. Express in scientific notation

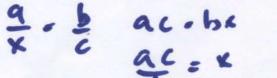
(a) .00012

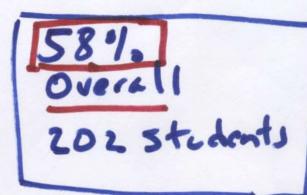
(b) 300,000

- 1.2 4 10
 - 3 x 10 5 70%
- 3. Geometry and Trigonometry
- (a) The formula for the area of a circle is: 77 57
- (b) Using the diagram at the right, $\cos \alpha =$
- a/b, b/a, a/c, 1/a. b/c, c/b (circle the right answer)

4. Algebra

- (a) PV=nRT; solve for T.
- PV = T
- (b) y=x/(1-x); solve for x
- (c) a/x = b/c; solve for x in terms of a, b, c





25% Fresh 29% Soph 21% Jun 18% Senion

