

Application Worksheet #2

Solve the problem.

1) After one round in a card game, your score was -44 points. After the second round, your score was 34 points. How many points did you gain in the second game? 1) _____

2) The wavelength w , in meters per cycle, of a musical note is given by $w = \frac{r}{f}$, where r is the speed of the sound in meters per second and f is the frequency in cycles per second. The speed of sound in air is 344 m/sec. What is the wavelength of a note whose frequency in air is 30 cycles per second? Round to the nearest tenth of a meter per cycle. 2) _____

3) The volume of a sphere with radius r is given by the formula $V = \frac{4}{3} \pi r^3$. Find the volume of a sphere with radius 4 meters. Use 3.14 for the value of π . 3) _____

Solve the formula for the indicated letter.

4) $A = \frac{1}{2}h(b_1 + b_2)$ for b_1

4) _____

5) $I = Prt$ for r (simple interest)

5) _____