



**Chapter 1 Problem Sample Test** Name \_\_\_\_\_

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**For all problems, show work, cancel units, use sig figs and box your answer!**

**Problem #1:**

A German Shepherd can run at a top speed of 28 miles/hr.

- 1) How many significant figures can your answer have? \_\_\_\_\_
- 2) Convert 28 miles/hr to millimeters/sec (write your answer using scientific notation, proper sigs, box your final answer).

**Problem #2:**

A chicken can lay an average of 1.020 eggs per day.

- 1) How many significant figures can your answer have? \_\_\_\_\_
- 2) How many dozen eggs per year is that?

**Problem #3:**

The density of water is 1.000 grams/mL (milliliter).

- 1) How many significant figures can your answer have? \_\_\_\_\_
- 2) What is the density of water in kilograms per Liter?

**Problem #4:**

Jose the Cat found himself in an awkward predicament one day as he was looking for gophers to eat. Seconds after this picture was taken, 38 mature German Shepherds chased Jose. In order for Jose to escape the German Shepherds, he had to run 39 miles/hr. How fast is this in feet per second?.

**Problem #5:**

Ernest was a big guy. If Ernest was 2,590mm tall, how tall is he in feet?

