1. [6 pts - 1 each] In each blank, write the most reasonable choice from among the numbers 0.001, 0.01, 0.1, 1, 10, 100, or 1000. You may re-use a number if you wish.

(a) The thickness of a penny is about ________ cm.

(b) The distance from here to Pittsburgh is about ________ km.

(c) A paperclip weighs about ________ g.

(d) Our table dividers weigh about ________ kg apiece.

(e) Don't touch that boiling kettle! It's ________ °C!

(f) After baling hay, my dad always gulps a ________ l glass of iced tea.

2. Convert as indicated; rounding to the nearest tenth if necessary. Show clear, organized work where needed.

(a) [2 pts] Convert 4 tons and 800 pounds to tons.

(b) [2 pts] Convert 17.6 yards to feet.

(c) [2 pts] Convert 3.67 hg to cg.

(d) [4 pts] That carpet costs $16 per square yard. How many cents is that per square inch?

(e) [8 pts] I've lost 32 pounds (hurray!) over the past 17 weeks. How many grams per hour is that? (Note that one kilogram equals 2.2 pounds.)