Career Tech warm up Unit 1

Cruising

1. Write the following as a reduced fraction

a. 0.05% b. 1.2%

1. What % of the cards in a regular deck are hearts?
2. What % of the cards in a regular deck are kings?

**Accelerating**

1. There are 5 red M & M’s in a bag of 45 M & M’s. What % are red? What % are non-red?
2. A machine part can have no more than 0.1% tolerance. This means that it can be slightly smaller or slightly larger. A plan calls for the part to be 10.5 centimeters long. Find the tolerance in centimeters, what is the largest it can be? What is the smallest it can be?

**Full on**

1. A box of raisins displays the weight of the raisins as being 6 ounces. The company allows for a 2% tolerance either larger or smaller than that displayed on the box. Would the following weights be allowed and therefore sold or not?
   1. 6.1 ounces
   2. 5.89 ounces
   3. 6.13 ounces