1) A) 34 eggs = ? dozen

  1 dozen = 12 eggs

  $\left(\dfrac{34 \text{ eggs}}{1}\right)\left(\dfrac{1 \text{ dozen eggs}}{12 \text{ eggs}}\right) = 2.8$ dozen

B) 25 dozen marbles = ? marbles

  1 dozen = 12 marbles

  $\left(\dfrac{25 \text{ dozen marbles}}{1}\right)\left(\dfrac{12 \text{ marbles}}{1 \text{ dozen marbles}}\right) = 3.0 \times 10^{2}$ marbles

2) A) ? m = 4.22 Km

  1 Km = 1000 m

  $\left(\dfrac{4.22 \text{ Km}}{1}\right)\left(\dfrac{1000 \text{ m}}{1 \text{ Km}}\right) = 4220$ m

B) ? Km = 65,300 m

  1 Km = 1000 m

  $\left(\dfrac{65,300 \text{ m}}{1}\right)\left(\dfrac{1 \text{ Km}}{1000 \text{ m}}\right) = 65.3$ Km

3) A) ? miles = 7.5 gallons

  1 gallon = 28.6 miles

  $\left(\dfrac{7.5 \text{ gallons}}{1}\right)\left(\dfrac{28.6 \text{ miles}}{1 \text{ gallon}}\right) = 210$ miles

3) B) $?$ gallons $= 6,435$ miles

I gallon $= 28.6$ miles

$$\left(\frac{6435 \text{ miles}}{1}\right)\left(\frac{1 \text{ gallon}}{28.6 \text{ miles}}\right) = 225 \text{ gAllons}$$

4) A) $?$ moles doughnuts $= 4.2 \times 10^{22}$ doughnuts

I mole $= 6.02 \times 10^{23}$ particles

$$\left(\frac{4.2 \times 10^{22} \text{ doughnuts}}{1}\right)\left(\frac{1 \text{ mole doughnuts}}{6.02 \times 10^{23} \text{ doughnuts}}\right) = .070 \frac{\text{mole}}{\text{doughnuts}}$$

B) $?$ fish $= 3$ moles fish

I mole fish $= 6.02 \times 10^{23}$ fish

$$\left(\frac{3 \text{ moles fish}}{1}\right)\left(\frac{6.02 \times 10^{23} \text{ fish}}{1 \text{ mole fish}}\right) = 2 \times 10^{24} \text{ fish}$$

5) A) $?$ Acres $= 26,000$ cars

I Acre $= 120$ cars

$$\left(\frac{26,000 \text{ cars}}{1}\right)\left(\frac{1 \text{ Acre}}{120 \text{ cars}}\right) = 220 \text{ Acres}$$

B) $?$ cars $= .45$ Acre

I acre $= 120$ cars

$$\left(\frac{.45 \text{ Acre}}{1}\right)\left(\frac{120 \text{ cars}}{1 \text{ Acre}}\right) = 54 \text{ cars}$$