1. Write the number sentence and scenario required for each problem. Round answers to the nearest tenth or hundredth as you see fit.

(a) A package of hamburger weighs 2.55 pounds. Mother will make $8\frac{1}{2}$ equal hamburger patties out of it. How much will each weigh?

(b) Delfina uses 18.9 ounces of chocolate for her famous dessert and 1.8 ounces for the garnish. How much more does she use for the dessert?

(c) A man bought 0.9 gallons of gasoline for his lawnmower. If gas costs $2.00 a gallon, how much did he pay?

(d) One bagel contains 0.2 pounds of flour. If 7.8 pounds of flour are used, how many bagels can be made?

(e) A paperhanger needs $3\frac{1}{2}$ rolls of paper to do a room. How many similar rooms can he do with 14 rolls of this paper?

(f) Ann used a $25 \text{ discount coupon when buying a plane ticket. The ticket normally sells for } \$175.60; \text{ how much did she pay?}$

(g) For 1 pound of meatloaf, you need 0.6 teaspoons of salt. \text{ How much salt do you need for } 2.4 \text{ pounds of meatloaf?}$

(h) For one batch of fruit punch, Art needs 3.5 liters of Hi-C, half a liter of pineapple juice, and 1.5 liters of 7-Up. \text{ How many liters of punch does this recipe make?}$

(i) Giant’s Bakery has 212.4 ounces of pecans. If they need to make 18 pecan pies, how many ounces of pecans can go into each pie?

(j) How much flour do you get from 0.64 pounds of wheat if 1 pound of wheat yields 0.8 pounds of flour?

(k) A punch recipe calls for 0.25 liters of lemon juice for each bowl of punch made. \text{ How many bowls of punch can you make with } 3 \text{ liters of lemon juice?}$

(l) Darla mixes 0.4 gallons of antifreeze with every gallon of water she puts in her car. \text{ She’d like to put } 2 \text{ gallons of antifreeze in the car; how much does she lack?}$

2. Make up a meaningful word problem that requires each computation and model listed below. Also give the answer.

(a) \text{ 40.5 \times 0.45, unit rate}$

(b) \text{ 4 \div 0.2, repeated subtraction}$

(c) \text{ 9.6 \div 15, sharing/partitioning}$

(d) \text{ 9.6 + 3.2, combine}$

(e) \text{ 6.3 – 2.1, comparison}$
1. (a) $2.55 \div 8.5 = 0.3$, sharing/partitioning  
   (b) $18.9 - 1.8 = 17.1$, comparison  
   (c) $0.9 \times 2.0 = 1.80$, unit rate  
   (d) $7.8 \div 0.2 = 39$, repeated subtraction  
   (e) $14 \div 3.5 = 4$, repeated subtraction  
   (f) $175.60 - 25 = 150.60$, take away  
   (g) $2.4 \times 0.6 = 1.44$, unit rate  
   (h) $3.5 + 0.5 + 1.5 = 5.5$, combine  
   (i) $212.4 \div 18 = 11.8$, sharing/partitioning  
   (j) $0.64 \times 0.8 = 0.512$, unit rate  
   (k) $3 \div 0.25 = 12$ repeated subtraction  
   (l) $2 - 0.4 = 1.6$, missing addend  

2. (a) A motorcycle goes 40.5 miles per gallon. How far will it travel on 0.45 gallons?  
   Answer: $40.5 \times 0.45 = 18.225$  
   (b) You have 4 liters of red paint. In order to make pink paint, you need to add 0.2 liters of red to each can of white. How many cans of pink paint can you make?  
   Answer: $4 \div 0.2 = 20$  
   (c) Fifteen friends together bought 9.6 pounds of cookies. How many pounds did each get if they all got the same amount? Answer: $9.6 \div 15 = 0.64$  
   (d) A clerk sold 9.6 yards of fabric and 3.2 later. How many yards did she sell altogether? Answer: $9.6 + 3.2 = 12.8$  
   (e) Sam ran 2.1 miles Sunday and 6.3 miles on Monday. How many more did he run on Monday? Answer: $6.3 - 2.1 = 4.2$