Numbers in Retail Stock Calculations

Stock Quantities

The owners of several train station coffee shops are taking a three-week vacation and need to figure out how much coffee to order while they are away. They supply four coffee shops, which use the following quantities of coffee beans each week:

- Shop 1: 8.5 lb. per week
- Shop 2: 11.3 lb. per week
- Shop 3: 7.7 lb. per week
- Shop 4: 6.8 lb. per week

The owners usually purchase coffee beans wholesale in 5 lb. bags each week and then divide this into smaller 1 lb. bags that are distributed to each of the coffee shops.

1. a) What is the total quantity of coffee beans used by all four shops each week? Show your work, and give your answer in lb.

b) How many 1 lb. bags of coffee beans do the owners deliver to each shop per week? Show your work, and remember that the number of bags must be a whole number.

c) What is the total number of 1 lb. bags the owners prepare each week? Show your working.

2. a) How many 5 lb. bags of coffee beans do the owners buy from the wholesaler each week? Show your work, and remember that the number of bags must be a whole number.

b) How many 5 lb. bags will the owners need to order to supply the shops while they are on vacation? Show your work.