Who’s Bringing the Ants?

Your school is planning a picnic and you are in charge of ordering the food. You decide to order enough for two sandwiches per person. Half of all the sandwiches will be hamburgers. Veggie burgers and bologna-and-cheese sandwiches will each make up a quarter of the total.

There are 500 students and teachers.  
Hamburgers come in packages of 12.  
Veggie burgers come in packages of 6.  
Buns come in packages of 8.  
Bologna comes in packages of 16 slices.  
Cheese comes in packages of 24 slices.  
Bread comes in packages of 32 slices.

Use the information above to answer each question.

1. How many packages of hamburgers do you need to order? of veggie burgers?

2. How many packages of buns do you have to order?

3. If each bologna-and-cheese sandwich will have one slice of bologna and one slice of cheese, how many packages of bologna do you need to order? of cheese? of bread?

4. What is the least number of hamburgers, veggie burgers, and buns you can have so that you would have the same number of each without opening any of the packages? How many packages of hamburgers would you have? of veggie burgers? of buns?

5. What is the least number of slices of bologna, cheese, and bread you can have so that you would have the same number of each without opening any of the packages? How many packages of bologna would you have? of cheese? of bread?

6. If bologna came in packages of 18 slices, what would the answer to Problem 5 be?
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Use the information above to answer each question.

1. How many packages of hamburgers do you need to order? of veggie burgers?
   42 hamburger, 42 veggie

2. How many packages of buns do you have to order?
   94 buns

3. If each bologna-and-cheese sandwich will have one slice of bologna and one slice of cheese, how many packages of bologna do you need to order? of cheese? of bread?
   16 bologna, 11 cheese, 16 bread

4. What is the least number of hamburgers, veggie burgers, and buns you can have so that you would have the same number of each without opening any of the packages? How many packages of hamburgers would you have? of veggie burgers? of buns?
   24; 2 packages of hamburgers, 4 of veggie burgers, and 3 of buns

5. What is the least number of slices of bologna, cheese, and bread you can have so that you would have the same number of each without opening any of the packages? How many packages of bologna would you have? of cheese? of bread?
   96; 6 packages of bologna, 4 of cheese, and 3 of bread

6. If bologna came in packages of 18 slices, what would the answer to Problem 5 be?
   288; 16 packages of bologna, 12 of cheese, and 9 of bread