

CCSS
8.EE.8**Party**

You invited 17 people to your house for a party. You want to spend a \$50 gift card completely on the items shown. You also want to have exactly two servings of food for each person.



\$6.00
4 Servings



\$7.00
5 Servings

1. Write a system of linear equations that represents this situation.
2. How many pizzas should you buy? How many bags of wings should you buy?
3. The price of a bag of wings increases to \$7.50. Now how many of each item should you buy? Explain.
4. Assume a bag of wings costs \$7.50. Your friend tells you that by spending just one dollar in addition to the gift card, you will have more food options. How does this change the system of linear equations that you wrote in Exercise 1? Explain why your friend is right.

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