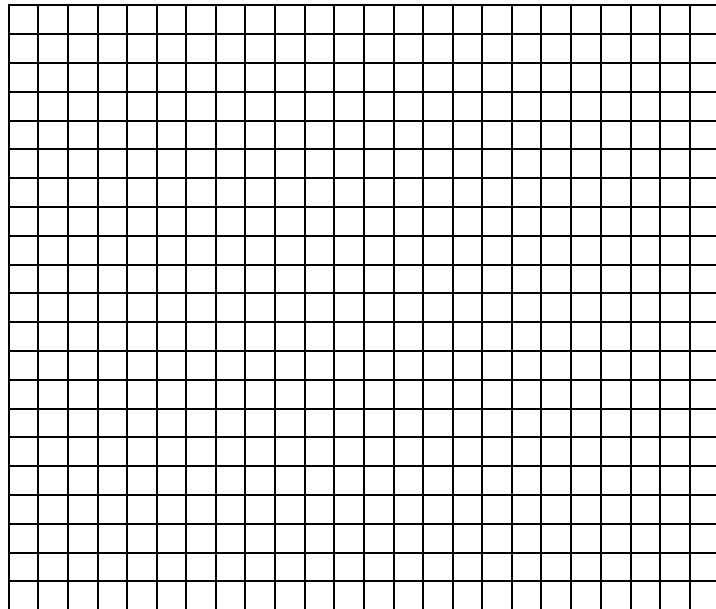


# 8 • Why Do Hot Air Balloons Float?

## PIZZA GRAPHS

Say you are planning a small party at which you are going to serve pizza. You can purchase pizza by the slice. Your first question is how much pizza does each person get. You plan on buying 24 slices of pizza. Fill in this chart of # of people and how many slices each person gets. Afterwards, make a graph of your findings.

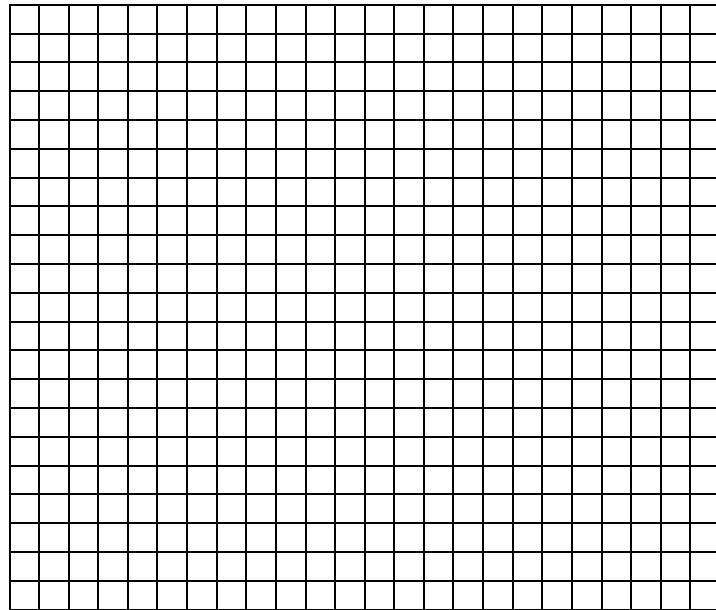
# guests	slices per guest
1	
2	
3	
4	
6	
8	
12	
24	



# of guests

The cost of the pizza is simply \$1.00 per slice. Calculate and graph the total cost of the pizza for your party.

# slices	cost of pizza
1	\$ 1.00
2	
3	
4	
6	
8	
12	
24	



# of slices

**Question:** One of these graphs is an example of variables that are “**directly proportional**” and the other is an example of variables that are “**inversely proportional**”. Which is which? Justify your answer.