1. Fill in the Venn Diagram using the information below.

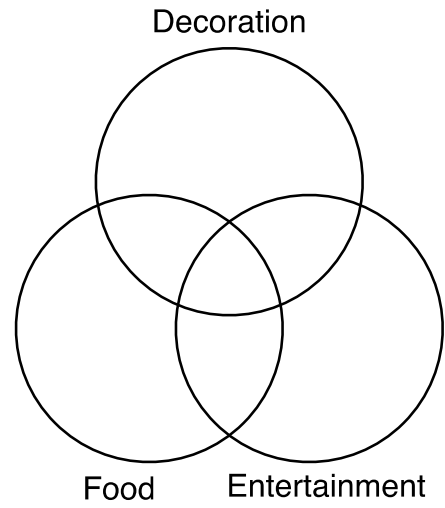**Party Decoration Committee**:
   Alexa, Amy, Zach, Joel, Tyler, Griffin, Ben L.

Food Committee:
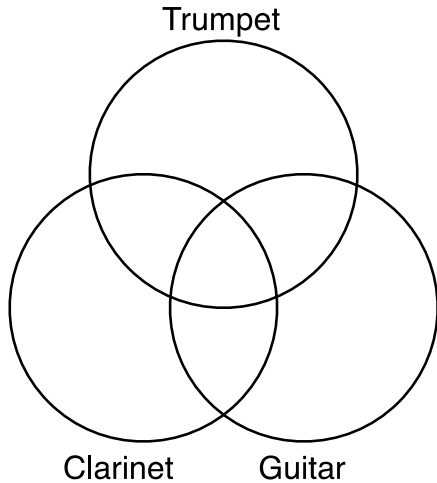   Sarah, Alexa, Zach, Cullen, Joel, Azaria

Party Entertainment Committee:
Lia, Anna, Sarah, Joel, Erik, Andre, Isaiah, Alexa, Ben L.

Decoration

Food   Entertainment

2. Draw a Venn Diagram to fit the information below.

Trumpet

Clarinet   Guitar

There are 50 students at North Hill Middle School who play instruments. Of these, 23 total play the trumpet; 20 total play the clarinet and 18 total play guitar. 4 students play the trumpet and the guitar but not the clarinet; 2 students play the clarinet and the trumpet but not the guitar; and 3 students play the guitar and the clarinet but not the trumpet. Only 1 student plays all three instruments.
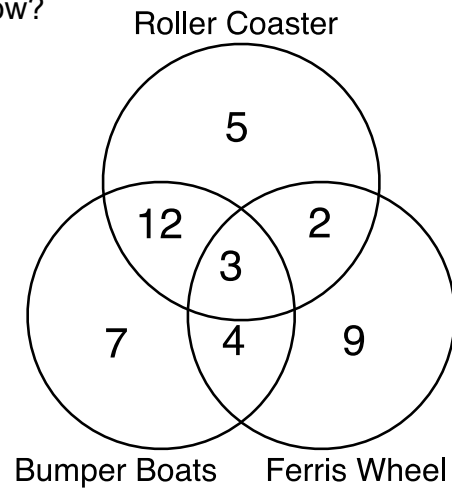
a. How many students play ONLY trumpet?
b. How many students play ONLY clarinet?
c. How many student play ONLY guitar?

3) Answer the questions based on the Venn Diagram.

a. Which was the most popular ride? How do you know?

Roller Coaster

b. How many people rode the Bumper Boats or the

Roller Coaster?

5

12   2
3

7   4   9

c. How many people rode both the Ferris wheel

and the Roller Coaster?

Bumper Boats   Ferris Wheel

d. If every person went on at least one ride, how many people went to the amusement park?

e.   How many people went on at least two rides?

f.   How many people went on only one ride?