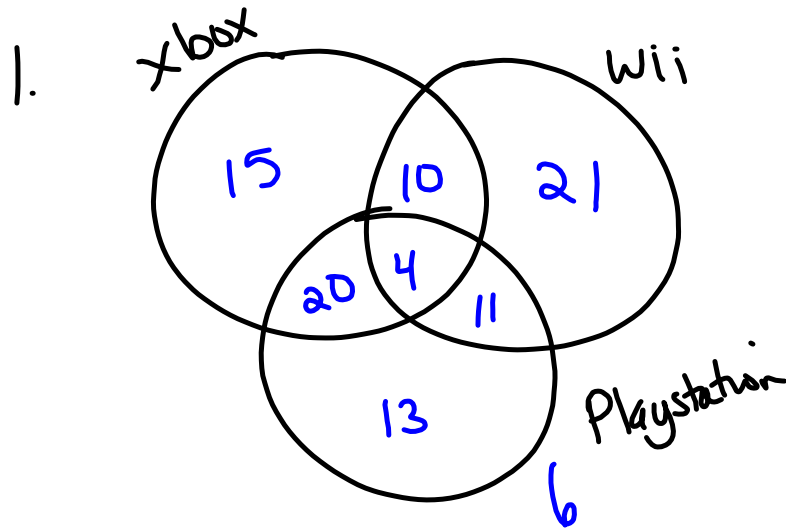
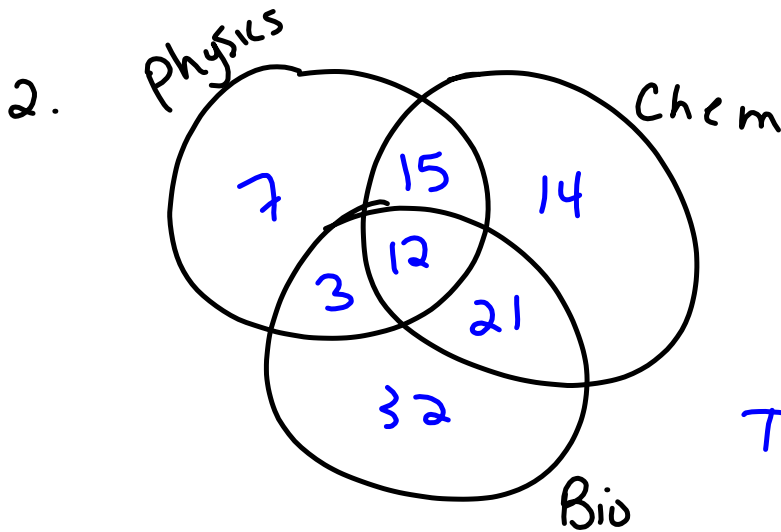


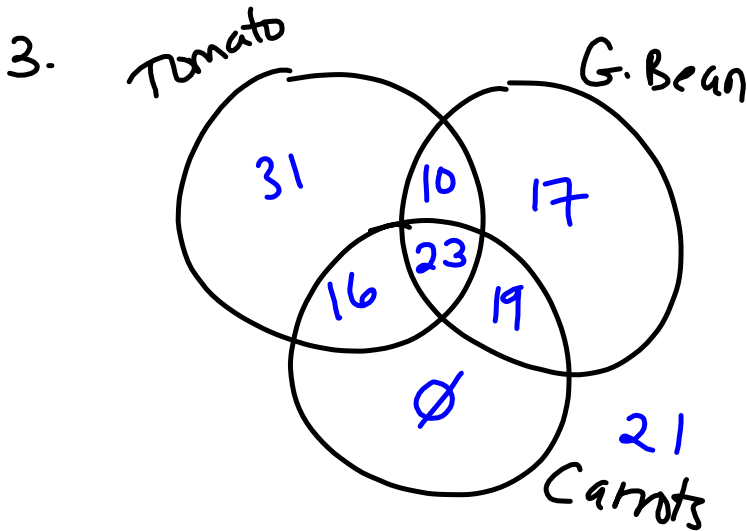
Sept. 17 sheet 3-Venn diagrams



- a) 15
- b) 11
- c) 20
- d) 45
- e) 49



Total: 104



39 carrots + tomato

* 3-Venn diagrams with three missing pieces (solve for missing variable)

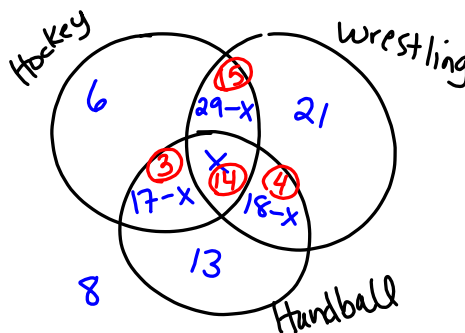
* on Pubic

example 1:

84 people were asked their favorite sport.

- 29 said hockey and wrestling
- 17 said hockey and handball
- 18 said handball and wrestling
- 13 said handball only
- 6 said hockey only
- 21 said wrestling only
- 8 do not like sports

- a) How many like all 3?
- b) How many like hockey and handball but not wrestling?



$$6 + 29 - x + 21 + 17 - x + x + 18 - x + 13 + 8 = 84$$

$$112 - 2x = 84$$

$$-2x = 84 - 112$$

$$-2x = -28$$

$$\boxed{x = 14}$$

- a) all three 14
- b) 3

2. 30 people

6 in only Art

5 in all 3

2 in chess and Art but not drama

15 in art

2 in only chess

3 in only drama

How many are in chess and drama but not art?

