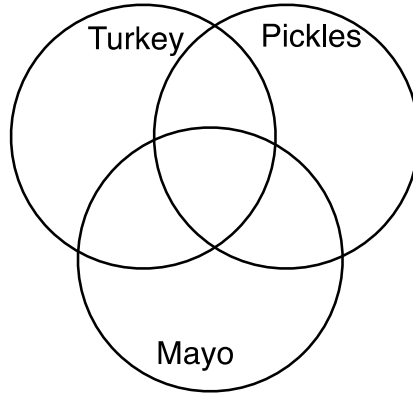


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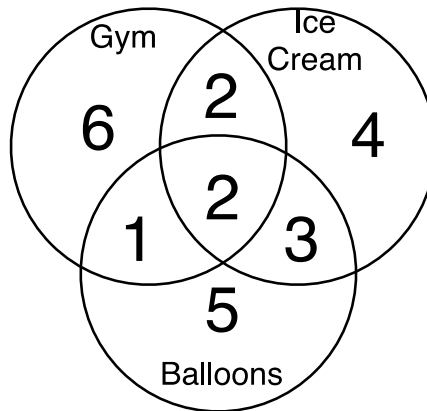
Venn Diagrams

Date: _____

1) Tony is ordering sub sandwiches for his graduation party. There are 42 sandwiches in all. 24 subs had pickles on them. 4 had pickles and mayo. 2 had turkey, pickles, and mayo. None of the subs had turkey and mayo without pickles. 18 of the subs had turkey. 4 of the subs had turkey and pickles but not mayo. Complete the Venn diagram below.



2) Matthew has attended 30 birthday parties this year. Use the Venn diagram below to answer the following questions.



- a) How many of the birthday parties had balloons?
- b) How many of the birthday parties had ice cream and balloons?
- c) How many parties were held at a gym but did not have balloons?
- d) How many parties had balloons or ice cream?
- e) How many parties had ice cream and balloons but were not held at a gym?
- f) How many parties were not held at a gym, and did not have balloons or ice cream?
- g) How many parties had only balloons?