

**Class Activity—Unit 1 Group Ranking Methods**    **NAME** \_\_\_\_\_

USE A SEPARATE SHEET OF PAPER TO SHOW YOUR WORK THAT JUSTIFIES YOUR ANSWERS FOR EACH OF THE FOLLOWING QUESTIONS.

- 1) On Tuesday, preferences were given for ranking favorite ice creams. 34 students participated. The class results can be found in the table below:

C	C	C	C	V	CC	CC	CC	CC	CC	CC	CC	S	S	C	C	CC
CC	V	S	CC	S	V	V	C	C	S	S	C	C	CC	CC	CC	C
V	CC	CC	V	C	C	C	S	V	C	V	V	V	V	V	S	S
S	S	V	S	CC	S	S	V	S	V	C	S	CC	C	S	V	V

CC	CC	CC	S	S	C	C	C	V	CC	CC	CC	CC	CC	CC	CC	CC
V	C	C	CC	CC	CC	CC	CC	C	V	C	V	V	V	S	S	V
C	V	V	V	V	S	S	S	S	S	S	S	S	S	V	C	C
S	S	S	C	C	V	V	V	CC	C	V	C	C	C	C	V	S

First, create a preference table using the preference ballots. Then determine a winner by applying the following methods:

- a) Plurality
  - b) Plurality with Elimination
  - c) Borda Count
  - d) Run-off
  - e) Approval (use the first 2 preferences as votes of approval)
  - f) pairwise comparison
- 2) Team up with 2-3 other people to create a ranking situation with three (3) choices. Have fifteen (15) of your classmates give a preference vote. Record each person's ranking. Create a preference table based upon their responses. Then determine a winner by applying the following methods:
- a) Plurality
  - b) Borda Count
  - c) Run-off
  - d) Approval (use the first 2 preferences as votes of approval)