# NCTM Content Standards Assessment Rubric 

Data Analysis \& Probability - Drill Sheets
Level:


## 15a) The following pie chart shows the result of a governor's election. It shows how many votes the candidate for each party received.


i) The largest amount of people voted for a candidate which p rty?
ii) The smallest amount of people voted for a cg
iii) About 55 percent of the people voted
iv) About 73 percent of the people voted
 which p
v) What percent of the people vot for el candidate or an "other" condida
vi) Ten percent more voters v in for ependent Party candidate than voted for tb ndid
vii) What is the rar e votes
viii) What is the ratrurn Republican candidates to "other" candidates?
ix) How many more vorers voted for the Republican candidate than the Independent candidate?
x ) The difference in votes between what two groups is 21 percent?
xi) The number of votes received by the Green party candidate is equal to the difference in votes between what two parties?
xii) If 3000 people voted in this election, how many votes did the Green Party get?
xiii) If 3000 people voted in this election, how many votes did other parties get?
xiv) If 3000 people voted in this election, how many votes did the Independent Party get?
xv) If 3000 people voted in this election, how many votes did the Republican Party receive?
xvi) If 3000 people voted in this election, how many votes did the Democrat Party receive?
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## Review B

## a) The graph below shows the number of students who play different instruments in the Carroll School band.


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ii) How many total seventh graders are in the
iii) What instrument is played by the gree"est umb of sixth and seventh graders?
iv) What instrument is played by of sixth and seventh gre vrs?
v) What instrument is playe did an qua umber of sixth and senim gra
vi) How many no gra graders play trombone than sixth graders?
vii) Which instrum played by twice as many seventh graders as sixth graders?
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$\qquad$
vii) Which instrument is played by more sixth graders than seventh graders?
ix) What fraction of the sixth graders play clarinet?
x) What fraction of the seventh graders play saxophone?
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xi) What is the ratio of sixth grade flute players to sixth grade drum players?
xii) What is the ratio of seventh grade clarinet players to seventh grade trumpet players?
xiii) What percent of the sixth graders play drums?
xiv) What percent of the seventh graders play trumpet?
xv) What percent of the total sixth and seventh graders play flute?
xvi) What percent of the total sixth and seventh graders play saxophone?

## Proportions and Fractions

The tally chart below shows how people responded to a question about ice cream flavors. Work with a partner or small group to answer the questions below.

| Flavor | Student's responding |
| :--- | :--- |
| Vanilla | ///// |
| Chocolate | ///// ///// |
| Butternut | $/ / /$ |
| Mint | $/ / / / /$ / |
| Rocky road | $/ /$ |
| Watermelon | $/ / /$ |


a) What question might students have been asked in order or the results shown on this chart?
b) List the flavors in order from most vo to ust vote.
c) Identify how many stuo we $d_{k}$ d fo participate in this chart.
d) Make three p is or this chart (example, what is the ratio of students who chose chocolat to students who chose watermelon).
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$\qquad$
e) Make three fractions based on this chart (example, what fraction of the total students selected rocky road).
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$\qquad$
f) As a group, decide what type of graph best shows this data. Then, put this data into the graph.

