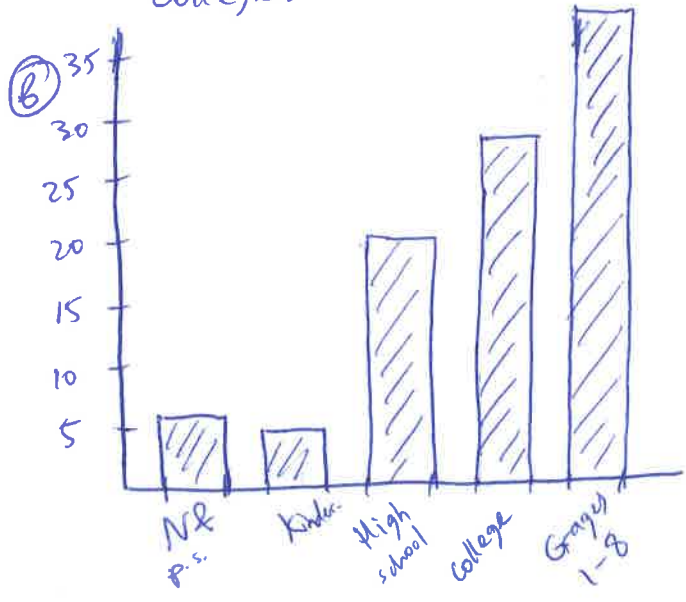
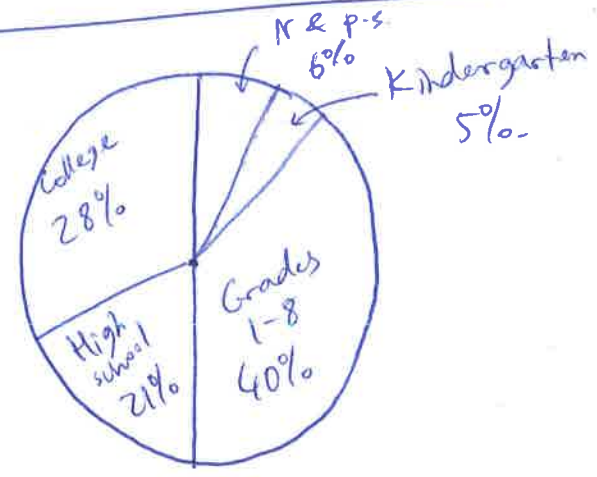




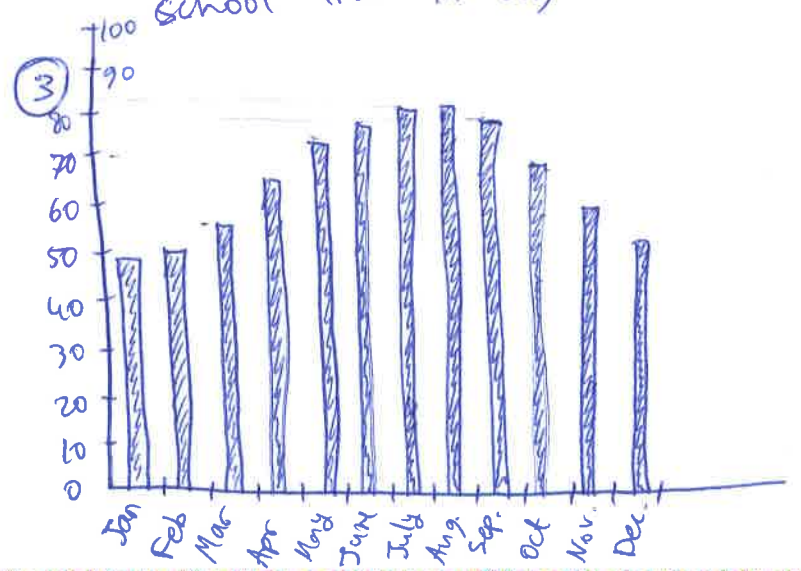
- ② Could be measurement or categorical depending on whether you ask the person to measure time spent on the task or give him ~~the~~ a list of possible answers.
- ③ Probably categorical.
- ④ Could be measurement or categorical depending on whether you count number of accidents or conduct a questionnaire with options "safe", "unsafe".
- ⑤ Measurement - number/depth of cavities or Categorical - opinion of a dentist.
- ⑥ Probably categorical unless you have some sophisticated equipment measuring impulses to the brain.
- ⑦ Measurement - winning percentage or categorical - ask for an opinion of an expert.

Section 30.1:

② Nursery & preschool:	22°
Kindergarten:	18°
Grades 1-8:	143°
High school:	75°
College:	102°

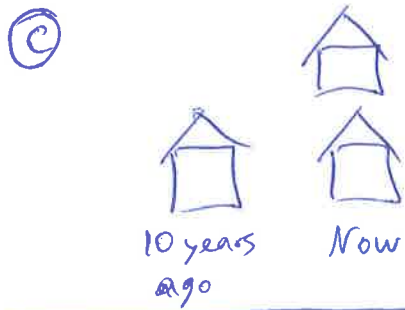


③ It might be surprising that there were more students in post-high school than in high school.



⑦ a) Both length and width are doubled for the larger drawing, leaving the impression of being 4 times as large as the smaller drawing, when the actual enrollment is only twice as much.

b) The bar leaves the impression that enrollment changes are much greater than they actually are.



⑧ a) The graph triples the three dimensions of the currency, leaving the impression that the "Now" figure is 27 times as great as the "Then" figure, when it is only 3 times as great.



c) Nine times as great.

d) By starting the scale at \$20, the graph makes "Now" 7-times as great as "Then".

Section 30.2:

② a) The cells are not of equal size.

b) A pie chart might be usable, although there are 10 categories. Alternatively, the data could be put into cells of size 50,000, but then we will lose information.

③ a) A pie chart or a bar graph.

b) Histogram or a stem-and-leaf plot.

c) Pie chart or bar graph.

d) Pie chart or bar graph.

e) Histogram, stem-&-leaf.

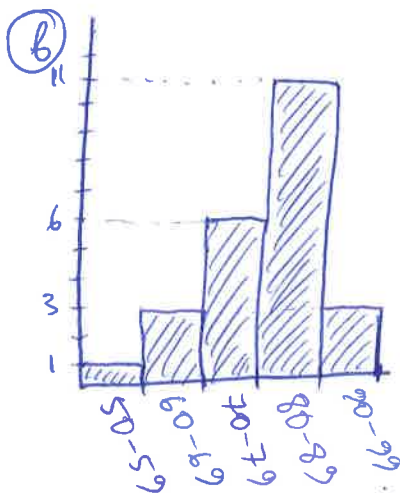
f) Histogram, stem-&-leaf.

g) Histogram, stem-&-leaf, bar graph.



SLE1 @

5	4
6	2 9 9
7	3 5 7 8 8 9
8	1 1 1 1 2 3 4 5 5 6 7
9	1 3 7



© Stem-and-leaf plot allows you to see each individual data value, but a histogram does not show them.

SLE2

- ① i. 3-9, (7 rows)    ii. 395-945 (14-2=12 rows)  
 iii. 39-94 (56 rows).  
 iv. The last digit does not indicate a significant amount relative to the count.

①

3	99
4	0 1 1 2 3 3 4 5 7 8 9
5	2 4 4 5 7 8 8 9
6	5
7	0 5 8
8	
9	1 4

① 523



© The data are mostly bunched between 400 and 600. Also, there is more spreading of the data above than below.

Here we just count second digits and ignore the third digit.

SLE4

2	1 2 4 4 4 4 6 6 6 6 6 6 7 7 7 7 8 8 9 9 9
3	0 0 0 0 0 1 1 1 2 3 3 3 3 4 4 4 4 4 5 5 5 7 7 7 7 8 8 8 9 9 9
4	1 1 1 1 2 2 5 5 7 9 9
5	
6	0 1 1 2
7	4
8	1