What kinds of graphs could you draw?

stem + leaf

pie chart

frequency polygon

Histogram

Scatter graph (two sets of data)

line graph

box and whiskers

cumulative frequency

Histograms (see other notebook file)

Averages

A small village has a population of 400.
The population is classified by age as shown in the table:

Age	0-12	13-24	25-40	41-60	60+
Freq	35	58	125	103	79

400

6×35 18.5×58

Find

- **the mean age,**
- **the group in which the median lies**
- **the modal group**
- **the range of ages**

Sampling

page 208 for discussion

A small village has a population of 400.
The population is classified by age as shown in the table:

4·4 7·25 15·625 12·875 9·875

Age	0-12	13-24	25-40	41-60	60+
Freq	35	58	125	103	79

400

$\frac{35}{400} = 0.08$

Sample 0.08×50

4·375

A stratified sample of 50 is planned.
Calculate the number of people that should be sampled from each age group.

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Stem and Leaf

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Key

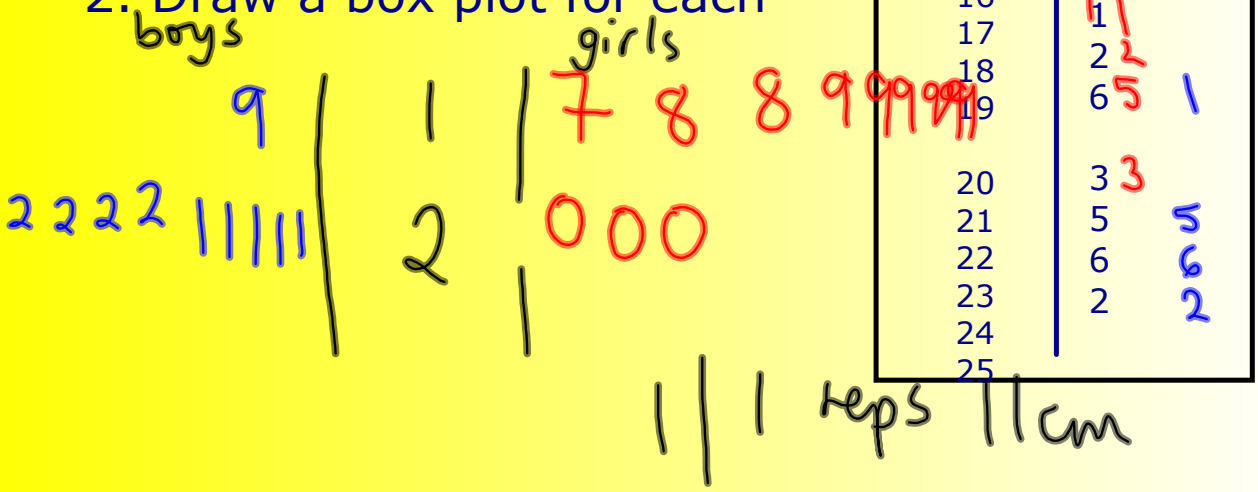
1 | 1 reps 11

Stem and leaf AL question

Hence draw a box and whiskers (box plot).

Your hand span

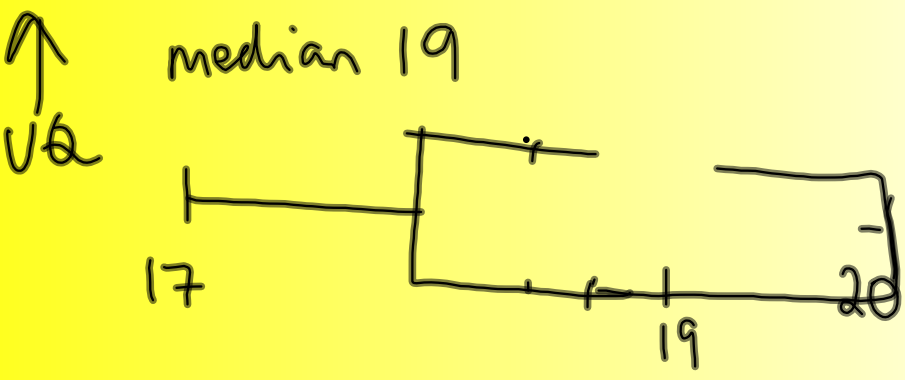
1. Draw a stem and leaf boys/girls
2. Draw a box plot for each



cm	freq
10	
11	1
12	2
13	
14	
15	
16	6
17	5
18	
19	1
20	3
21	5
22	6
23	2
24	
25	

Girls results:

17,18,18,19,19,19,19,19
20,20,20



Time to get to school (mins)	Frequency
$0 < t \leq 10$	3
$10 < t \leq 20$	5
$20 < t \leq 30$	3
$30 < t \leq 40$	1
$40 < t \leq 50$	2
$50 < t \leq 60$	7

$60 < t \leq 70$ 3

1.Draw a frequency polygon for this data.

2. Calculate an estimate of the mean time taken to get to school.

3. Draw a pie chart for the data.

Moving averages

Moving averages look at trends over a period of time.
Look for the period given! Usually it's a 3 or 4 point moving average.

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