REVISION: DATA HANDLING

27 MARCH 2014

Lesson Description

In this lesson we revise:

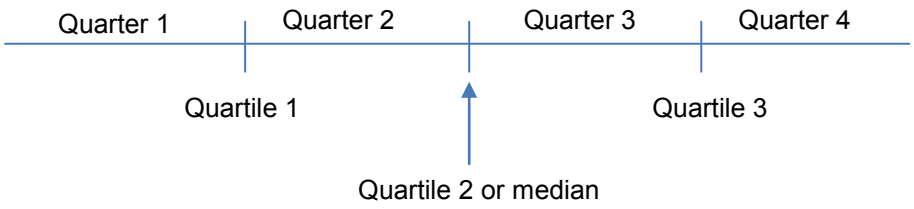
- Collecting, Organising & Classifying Data
- Analysing & representing Data

Summary

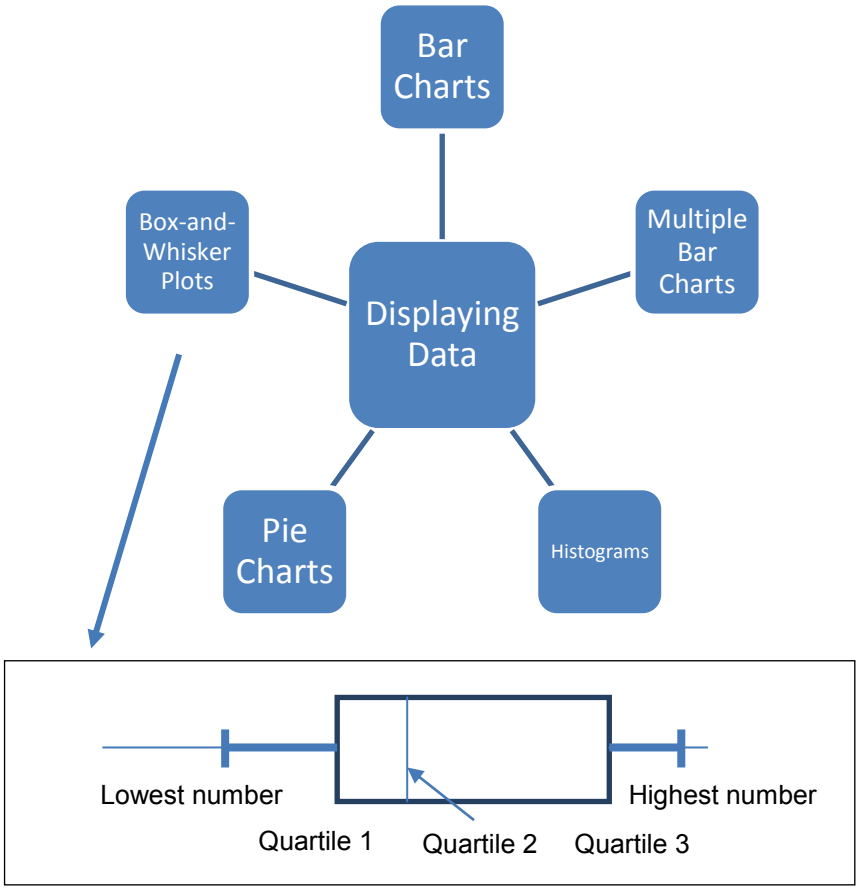
Analysing & Representing Data

Median: After arranging the data in order, the median is the centre of that arranged data.

All Data can be broken into 4 quarters



Quartile Range = Quartile 3 – Quartile 1



Improve your Skills

Collecting, Organising & Classifying Data

Question 1

A very bored Grade 11 students sat at the school gate and counted the different colour cars that drove past and the sex of the driver. (M=Male ; F=Female). The results were as follows:

white(M)	red(F)	red(F)	red(M)	green(M)	white(M)	white(F)
green(F)	red(M)	red(M)	green(F)	red(M)	white(F)	white(M)
white(F)	blue(M)	green(F)	white(M)	blue(F)	blue(M)	
blue(M)	red(F)	blue(M)	yellow(F)			

Copy and complete the following table:

COLOUR	MALES		FEMALES	
	Tally	Frequency	Tally	Frequency
Red				
White				
Blue				
Green				
Yellow				

1.1 How many cars came past the students?
1.2 What is the most popular colour car?
1.3 Which colour/s is favoured among the women?
1.4 Which colour/s is favoured among the men?

Question 2

Consider the Cumulative Frequency Table below which is a summary of the results after a class of boys were asked: “Which is your favourite colour?”

COLOUR	TALLY	FREQUENCY	CUMULATIVE FREQUENCY
BLUE		6	6
RED	IIII		
GREEN	II		
YELLOW	IIII		

2.1 On the table above complete the Cumulative Frequency Table by filling in all the open gaps.

2.2 Draw a bar graph using the set of axes on the axes provided.

Question 3

A class of 24 students, made up of 16 boys and 8 girls were asked which sport they enjoy (the most) watching on television. The following results were recorded:

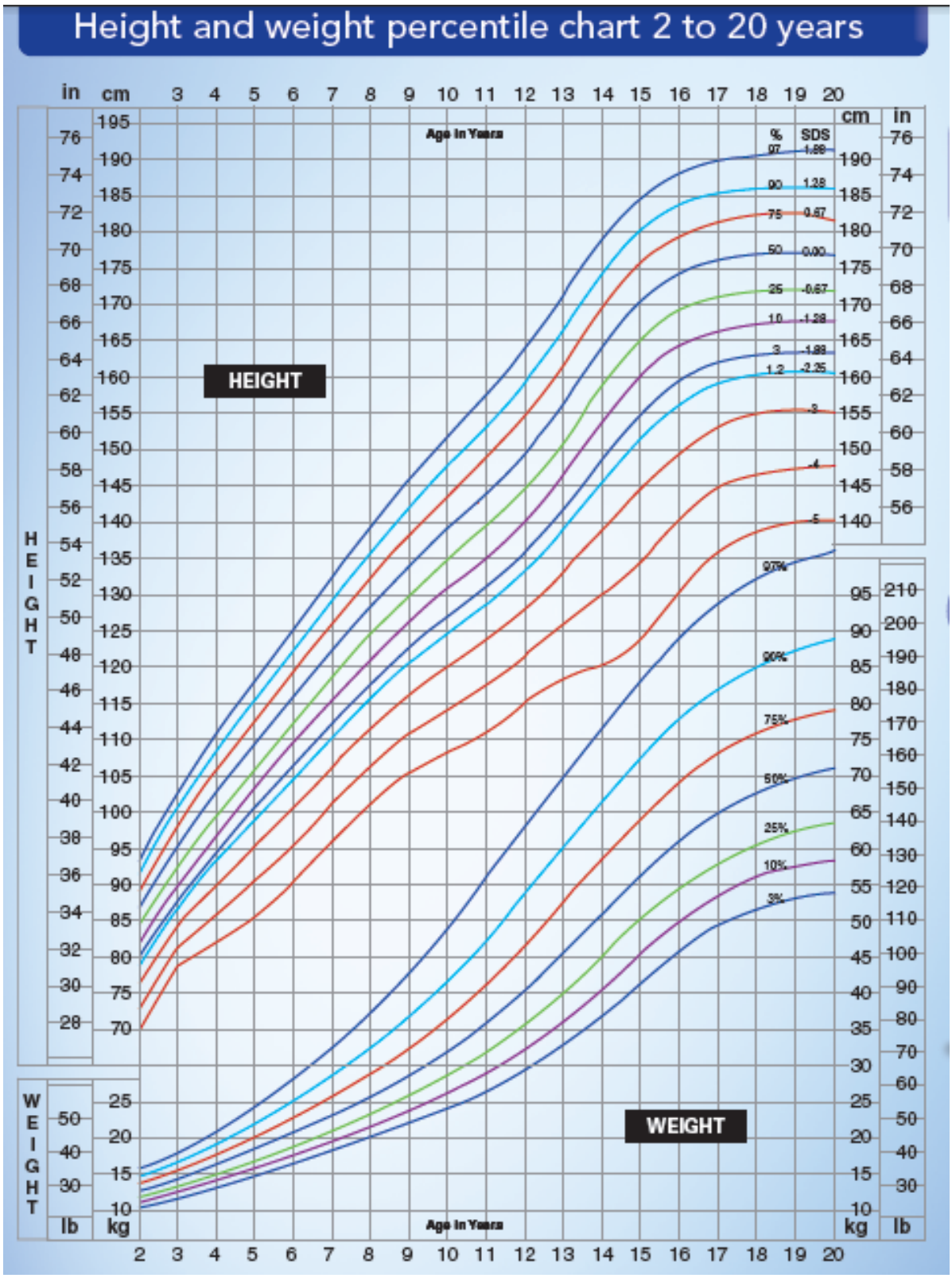
	Rugby	Soccer	Ice-Skating	Athletics	Swimming	Hockey
Boys	9	4	0	A	1	0
Girls	1	0	2	1	B	2

3.1 How many boys enjoying watching Athletics the most? (The value of A)

3.2 How many girls enjoy watching Swimming the most? (The value of B)

Analysing & Representing Data

Question 2



2.1 On what percentile does a 7-year old lie if he is 130cm high?

2.2 Explain what your answer in 2.1 means.

2.3 A 19 year-old who weighs70 kg lies on which percentile?

2.4 What does your answer to 2.3 mean?

2.5 How heavy is a 15 year-old who lies on the 25^{th} percentile?

2.6 How old is a young man who weighs 40kg and lies on the 25^{th} percentile?

2.7 How tall is a 17 year-old who lies on the 97^{th} percentile?

2.8. How old is a young man who is on the 10^{th} percentile and is 135cm tall?