UNIT 11 Data Collection and Presentation

Overhead Slides

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OS 11.1

Tennis Player Data

Pete Sampras		Goran Ivanisevic
26	Age (years)	26
Washington DC	Birthplace	Split, Croatia
Orlando, Florida	Residence	Monte Carlo
6 ft 1 in	Height	6 ft 4 in
170 lb	Weight	180 lb
\$ 32 422 649	Career Winnings	\$ 16 536 936
1	World Ranking	25
10	Grand Slam Titles	0
10	Head to Head	6
	Wimbledon 1998	
6	Matches	6
105	Aces	161
41	Double Faults	78
55%	First Serve Percentag	e 55%
89%	First Serve Points Wo	n 87%
60%	Second Serve Points W	52 %
136 mph	First Serve Max Spee	d 128 mph
123 mph	First Serve Average	118 mph
126 mph	Second Serve Max Spe	ed 116 mph
109 mph	Second Serve Average	e 104 mph

Lifestyle

Car: black Porsche Turbo S

Love life: girlfriend is Kimberley Williams, a 26 year old actress who starred in the film *Father of the Bride*.

Likes: Italian food, playing golf and flying his private jet.

Coach: former player Paul Annacone.

Car: does not drive in Monte Carlo

Love life: on the rocks. Has split up with girlfriend of five years.

Likes: Italian food, playing golf and

competitive football.

Coach: has split with his long-term coach Bob Brett and now travels with his good friend Vedran Martic.

OS 11.2 Database

Niraj collects information about some friends and puts it in the database below:

Name	Age	Shoe Size	Gender	Height	Place of Birth
Rachel	10	4	F	142 cm	Plymouth
Simon	11	6	M	153 cm	Plymouth
Hannah	12	7	F	186 cm	Plymouth
Jai	14	8	M	172 cm	Derby
Vikram	11	5	M	149 cm	Bristol
Fatima	12	4	F	162 cm	Plymouth
Fatoumata	12	5	F	157 cm	Exeter
Nigel	10	6	M	148 cm	London
Emma	7	3	F	121 cm	Plymouth

1. Which columns contain:

- (a) qualitative data,
- (b) discrete quantitative data,
- (c) continuous quantitative data?
- 2. Who is the *tallest* person born in Plymouth?
- 3. Where was the *shortest female* born?
- 4. Who is the *tallest* person who wears *size* 6 shoes?

OS 11.3

Collecting Data

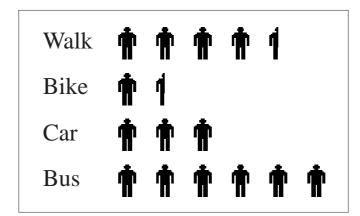
The pupils in a class collected data on how they travelled to school.

Complete this table:

Method of Travel	Tally	Frequency
Walk	HHT	
Bike	111	
Car	++++	
Bus	HHT HHT	
	TOTAL	

A. How many pupils are there in the class?

This pictogram illustrates the data:



- B. What does each person in the pictogram represent?
- C. What other ways can be used to illustrate the data?

OS 11.4

Data Collection Sheet

Tally	Frequency
TOTAL	

OS 11.5 Pie Charts

This table shows the time spent by a pupil on each homework subject one evening:

Subject	Maths	English	Science	Technology	French	Geography
Time (mins)	50	20	30	20	30	30

Represent the data with a pie chart.

Subject	Time (mins)	Fraction of total time	Angle
Maths	50	$\frac{50}{180}$	$\frac{50}{180} \times 360 ^{\circ} = 100 ^{\circ}$
English	20		
Science	30		
Technology	20		
French	30		
Geography	30		
Total	180		

OS 11.6 Birthdays

	Tally Chart	Total
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Oct		
Nov		
Dec		

Bar Chart

