

Starters

The Median 5 (1)















Frequency Table (2)

Height h in cm	Tally	Frequency
$155 \leq h < 160$		6
$160 \leq h < 165$		4
$165 \leq h < 170$		8
$170 \leq h < 175$		5
$175 \leq h < 180$		1

Line Graph No. of games $3 + 5 + 1 + 0 + 4 = 13$ (1)

The Mode 1 (1)

Pictogram (2)

May	   
June	 
July	  
August	    

Key  4 days

Main Course

Shopping bags	$\frac{1 \times 3 + 2 \times 5 + 3 \times 4 + 4 \times 2 + 6 \times 1}{3 + 5 + 4 + 2 + 1}$	(1)
	= 2.6 no. of bags	(1)
	% reduction $1.4 \div 4 \times 100 = 35\%$	(1)
	Only small sample of 15 so not very accurate	(1)
	Larger sample size to get a better representation of the population	(1)

Two Way Table

	Can tie laces	Cannot tie laces	(4)
Under 7	6	18	
Over 7	10	2	

Average Wage	$x + 2x + 2x - 20 + x + 20 + 3x = 540$	(1)
	$9x = 540 \quad x = 60$	(1)
	Ben £60, Jen £120, Len £100, Ken £80, Tom £180	(1)
	Range £120	(1)

Selling Houses	$1550 \div 62 = £25$	(1)
	$360 \times 25 = £9,000$	(1)
	Commission for house C $126/360 \times 900 = £3,150$	(1)
	$3150 \div 1.5 \times 100 = £210,000$	(1)

The Bing Family	Mean is 36 and Median is 28.5	
	Ages increase by 10 years therefore mean age and median age will increase by same amount	(2)
	Range 45 unaffected as difference between oldest and youngest member remains the same	(1)
Dessert		
Conducting a Survey	Only interviewing females	(1)
	Time conducted may not provide variation in customer type	(1)
Questionnaire	Giving an opinion can influence persons answer.	(1)
	What type of newspapers do you read?	
	Tabloid or Broadsheets?	(1)
Calculating the Mean	She has divided by the no. of groups rather than the total no. of classes (20)	(1)
	$50 \div 20 = 2.5$ pupils	(1)
Negative Correlation	Graph shows as one variable increases the other decreases E.g. Value and age of car	(1)
Working with the mean	We know mean = total \div no. $16.40 = \text{total} \div 5$	(1)
	$5 \times 16.40 = \text{£}82$	(1)
The Mode	The mode is 1.	(1)
	9 is the frequency and this shows that 1 has occurred the most	(1)

Drinks

Rajs Earnings $360 \div 1440 = 0.25^\circ$ (1)

Rent	$540 \times 0.25 = 135^\circ$	(2)
Bills	$360 \times 0.25 = 90^\circ$	
Food	$180 \times 0.25 = 45^\circ$	
Leisure	$270 \times 0.25 = 67.5^\circ$	
Savings	$90 \times 0.25 = 22.5^\circ$	

Questions Relevant questions (1 mark for each) (3)

E.g. Do you use the cafeteria?

How often do you use the cafeteria?

Finding Data Total 35
4, 6, 6, 6, 13 (2)

Find the Median Median age is 8 (2)

Scatter Graph Appropriate Scale (1)

Points plotted correctly (1)

Line of best fit drawn by eye (1)

Time Series Appropriate Scale (1)

Plotted correctly and joined by straight line (1)