



A calculator should **NOT** be used in this assessment. **All working should be shown.**

1. Use this table to construct a **Comparative Bar Graph** showing the number of Arsenal and Chelsea football tops sold one day in three High St. stores in London.



	Groves	JJT	Empire
Arsenal	10	18	6
Chelsea	16	3	17

2. (a) Construct a **Comparative Line Graph** showing the average number of hours of sunshine per week in two French villages over a period of five weeks during the summer.



	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5
La PAZ	40	50	100	35	75
La MERE	10	80	65	90	75



- (b) On how many occasions is the temperature at La Mere higher than at La Paz ?

3. Shown below are the **Physics** and **Chemistry** percentage marks of ten pupils who sat S3 exams in both subjects.

Name	Phy	Chem
Ann	60	80
Brian	40	70
Claire	10	10
Dean	50	75
Eck	70	90

Name	Phy	Chem
Fran	80	5
Gill	50	65
Henry	45	50
Ian	30	40
Jan	25	30

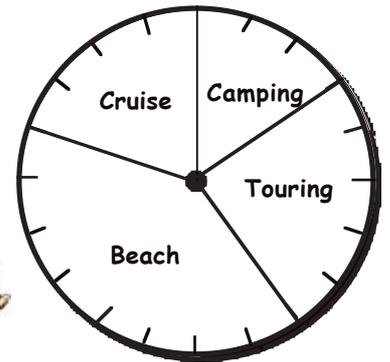


- (a) Construct a **scattergraph** to represent this information.
- (b) Comment on the **correlation** in this example.
- (c) Comparing both subjects, there is one pupil who has scored differently from the others - who is it ? Explain your answer.
- (d) Draw a **Line of Best Fit** on your scattergraph.
- (e) An eleventh pupil scored 55 for physics but was given an estimated mark for chemistry. Estimate that **chemistry** mark using your line.

Please turn over

4. This pie chart shows the different kinds of holidays which people choose to take.

- (a) What fraction of the people prefer to go on a cruise ?
- (b) What percentage of the people like to go on a beach holiday ?
- (c) If 240 people took part in this survey, **how many** preferred to tour whilst on holiday.



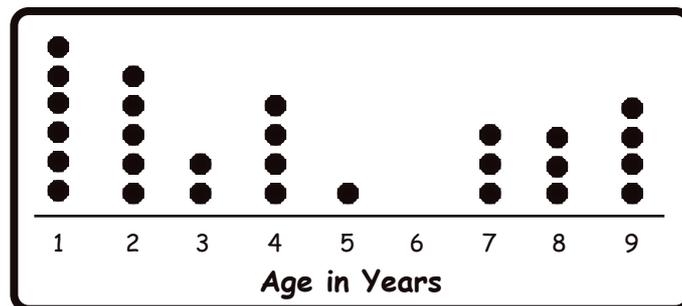
5. The number of fish caught by two 8-man Fishing Teams in a competition was recorded. One team used worms to fish, the other used flies.

Worm Fishing	27	13	17	29	38	24	41	9
Fly Fishing	43	26	33	27	21	26	30	20



- (a) Draw an **ordered back to back** stem and leaf diagram to represent this information.
- (b) Find the **median** number of fish caught by the team using worms.
- (c) Write down the **modal** number of fish caught by the team using flies.
- (d) Fishermen who caught more than 35 fish received a silver medal.
How many fishermen received a silver medal ?

6. This dot plot shows the age of each second-hand car which is on display at Arnold's Motors.



- (a) How many cars are 4 years old or under ?
- (b) How many cars in total are on display ?
- (c) What is the **modal** age of the cars ?
- (d) Find the **median** age.

