Guide to: Pie charts

maths Links

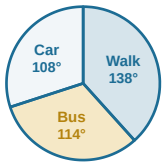
Explanation:

All the angles at the centre of a **pie chart** add up to **360°**. To draw a pie chart, divide 360° by the total frequency to find how many degrees represent **1 item** (Multiplier = 360° ÷ Total), then multiply each frequency by that angle. Always check your angles add up to 360°.

To find a frequency from a given pie chart, write the sector angle as a fraction of 360° and multiply by the total number of people: Frequency = $\frac{\text{Angle}}{360}$ × Total.

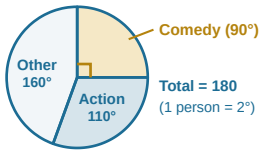
Example 1: Calculate the pie chart angles for **60 students**.

Travel	*f*	× 6°	Angle
Walk	23	23×6°	**138°**
Bus	19	19×6°	**114°**
Car	18	18×6°	**108°**



360° ÷ 60 = **6° per student**. Check: 138° + 114° + 108° = 360°.

Example 2: This pie chart represents **180 people**. **Comedy** is 90° and **Action** is 110°. How many people chose each?



- **Comedy (90°):** $\frac{1}{4}$ of 180 = **45 people**
- **Action (110°):** $\frac{110}{360}$ × 180 = **55 people**

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