

Pie Charts

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **23**

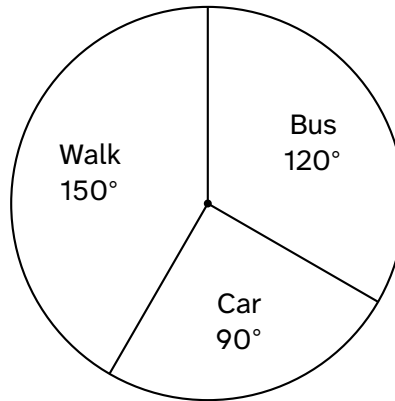
Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Pie charts that you are asked to draw need a protractor. Print this sheet at 100% so that the circles are the right size.

- 1** A sector of a pie chart has an angle of 120°
What fraction of the data does this sector represent?
Circle your answer.

[1 mark]

$\frac{1}{12}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{1}{2}$
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- 2** The pie chart shows how 72 students travel to school.



- (a) Write down the modal way of travelling.

[1 mark]

Answer _____

- (b) How many of the students travel by car?

[2 marks]

Answer _____

- (c) How many more students walk than go by bus?

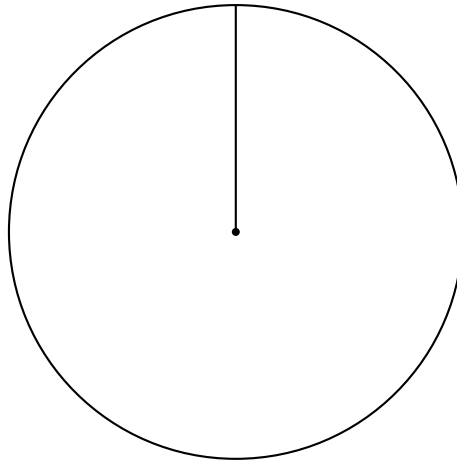
[2 marks]

Answer _____

- 3 36 people were asked to choose their favourite drink.

Drink	Tea	Coffee	Juice
Frequency	12	15	9

Draw a pie chart to show this information.



[3 marks]

- 4 In a pie chart, the angle for people who chose red is 72°
18 people chose red.
How many people are shown in the pie chart altogether?

[2 marks]

Answer _____

- 5 60 people were asked to choose their favourite colour.
15 people chose blue.
Kai draws a pie chart to show the results.
He says,

"The angle for blue is 15° because each person is worth 1° ."

Is Kai correct? Tick a box.

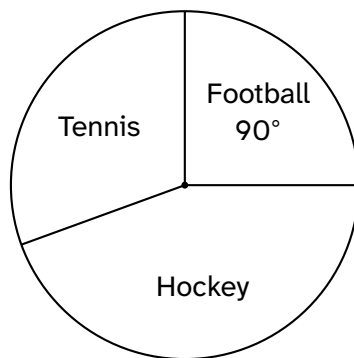
Give a reason for your answer.

[1 mark]

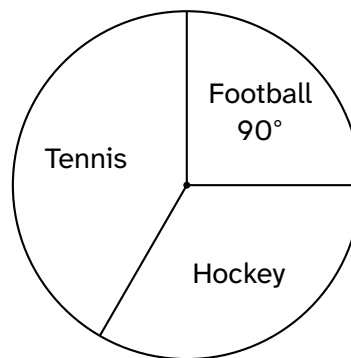
☐ Yes

☐ No

- 6 Two pie charts show the favourite sport of students at school *A* and at school *B*.
School *A* has 200 students. School *B* has 400 students.
The angle for football is 90° in both pie charts.



School *A*



School *B*

Tom says, *"The same number of students chose football in each school."*

Is Tom correct? Tick a box.

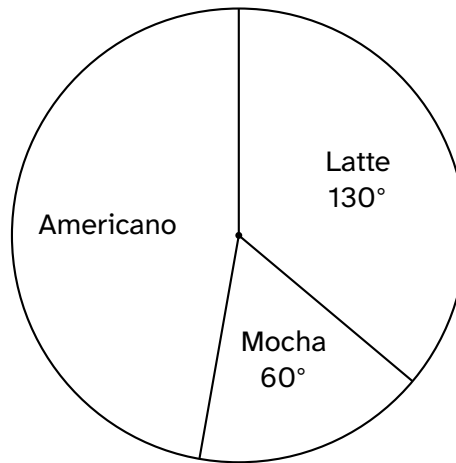
Give a reason for your answer.

[1 mark]

☐ Yes

☐ No

- 7 The pie chart shows the types of coffee sold by a café one morning.



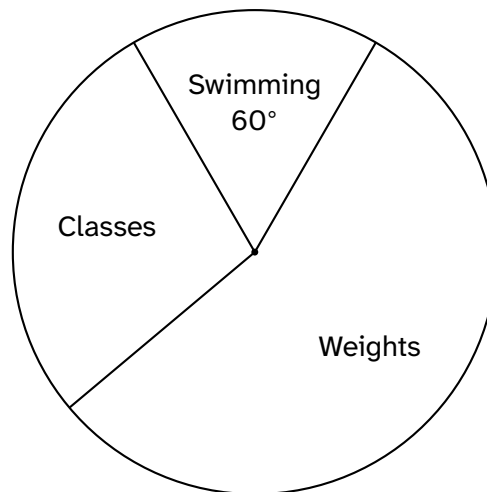
Not drawn accurately

The café sold 85 Americanos.
How many coffees did the café sell altogether?

[3 marks]

Answer _____

- 8 The members of a sports club each chose their favourite activity. The pie chart shows information about their choices.



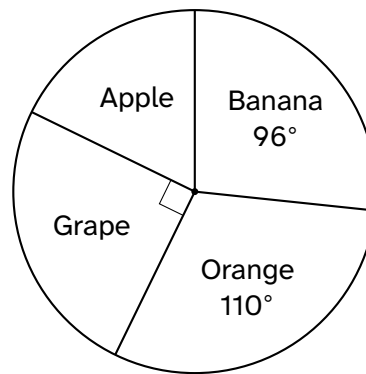
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Twice as many members chose weights as chose classes.
48 members chose swimming.
Work out the number of members who chose classes.

[3 marks]

Answer _____

- 9 Some people were asked to choose their favourite fruit.
The pie chart shows information about the results.



Not drawn accurately

120 people chose Banana.
How many people chose Apple?

[4 marks]

Answer _____