Drawing pie charts

Grade 3 | Foundation | 5 questions, 21 marks

GCSE Statistics topic practice

Name: _____ **Date:** _____ **Score:** _____ **/ 21**

1 36 pupils were asked to name their favourite fruit. Amy is going to draw a pie chart for the results.

Fruit	Apple	Banana	Grapes	Orange
Number of pupils	12	9	10	5
Angle of sector				

a. Work out the angle Amy should use for one pupil. (1)

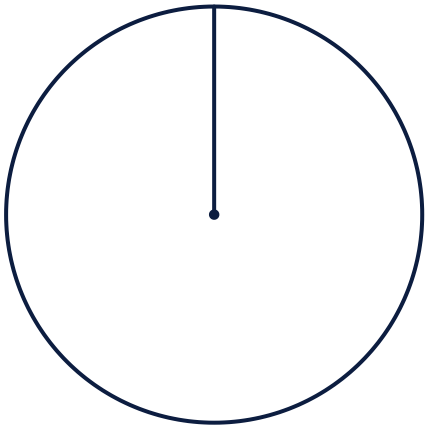
b. Complete the table. (2)

(3 marks)

2 90 workers at a factory were asked how they travel to work. The table shows the results.

Method of travel	Car	Bus	Train	Walk
Number of workers	40	25	15	10

Draw an accurate pie chart to show this information.



(4 marks)

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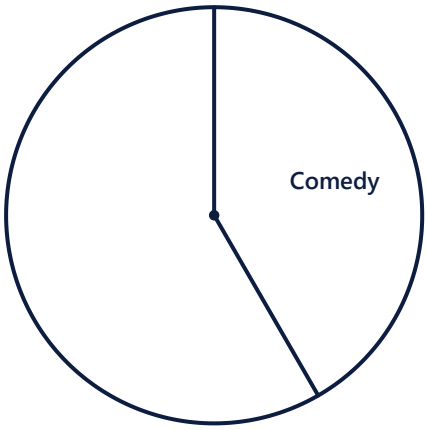
3 60 people were asked which type of film they like best. The table shows the results.

Type of film	Comedy	Action	Horror	Drama
Number of people	25	15	12	8

Ben starts to draw an accurate pie chart. He has drawn the sector for Comedy, which has an angle of 150°.

a. Work out the angles for Action, Horror and Drama. (2)

b. Complete the pie chart. (2)



(4 marks)

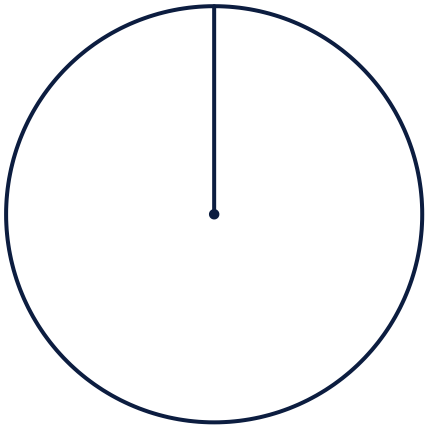
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4 720 people visited a castle on one day. The table shows the type of ticket each person bought.

Type of ticket	Adult	Child	Senior	Student
Number of people	300	240	100	80

a. Work out the angle of each sector for a pie chart. (3)

b. Draw an accurate pie chart to show this information. (2)



(5 marks)

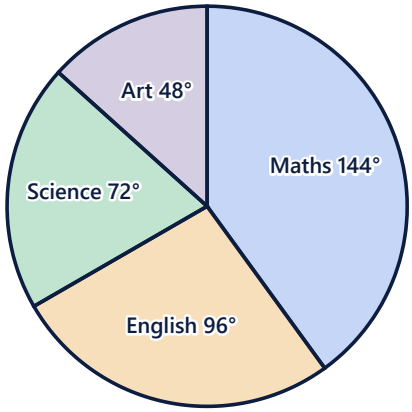
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5 Zara asked the students in her class to name their favourite subject. She drew this accurate pie chart. 18 students chose Maths.

a. Work out the total number of students Zara asked. (2)

b. Work out the number of students who chose Art. (1)

c. Dev is going to draw a pie chart for a class of 30 students. He says, "I will use 10° for each student."
Is Dev correct? Show how you decide. (2)



(5 marks)

End of questions | Total 21 marks

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