Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Pie Charts

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.
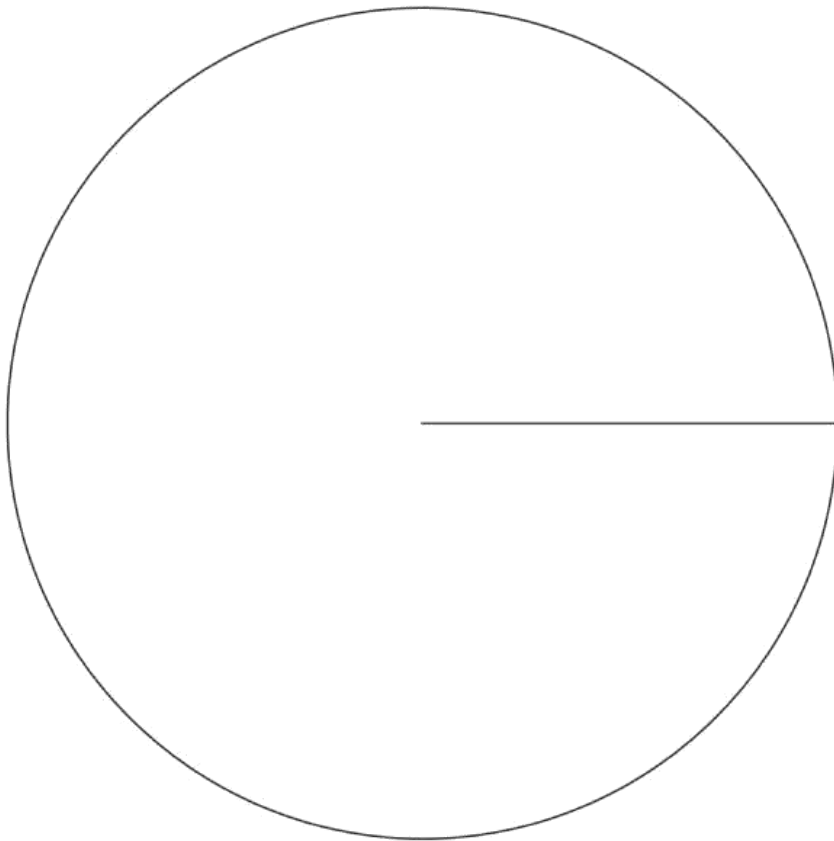
You should have a ruler, compass and protractor where required.

Total Marks :

1) The number of buns sold in a bakery was recorded as follows.

Cream	16
Fruit	10
Jam	9
Chocolate	25

Draw a pie chart to illustrate this information.

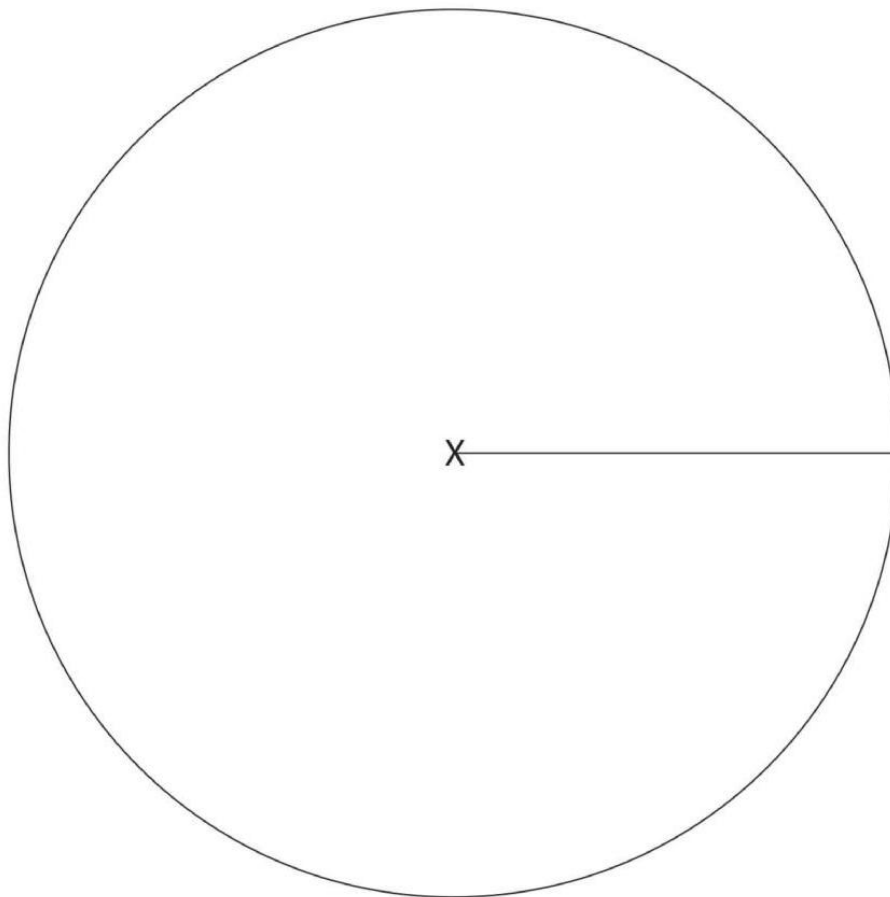
[4]

2)

The colours of the cars passing the school gates were noted during a school day.

Colour	Red	Blue	Black	Green	Silver	Other
Number of cars	6	12	2	10	8	2

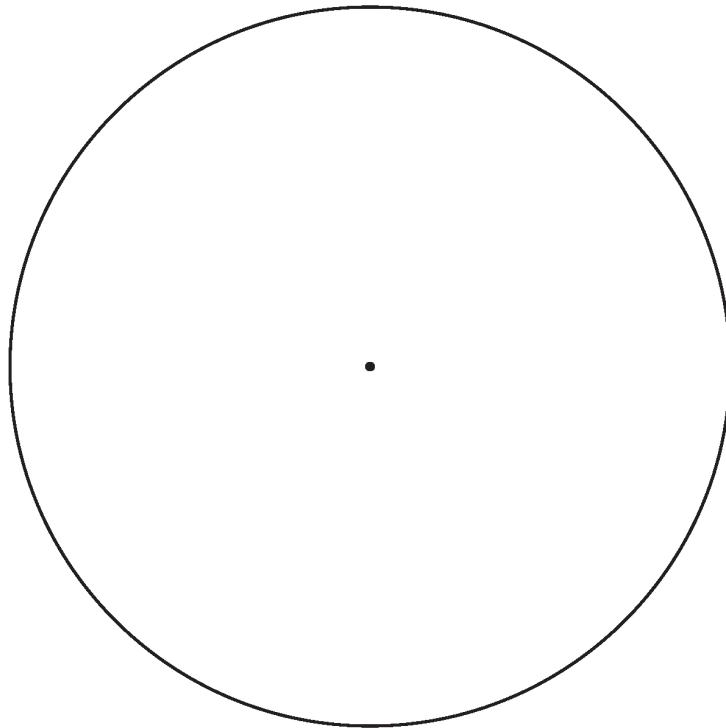Draw a clearly labelled pie chart for this data.

[4]

3) The table shows the number of ice creams of each of four flavours bought from a van one Saturday.

Ice cream flavour	Vanilla	Chocolate	Strawberry	Raspberry
Number bought	110	70	38	22

Draw a pie chart to illustrate this data. You should show how you calculate the angles of your pie chart.

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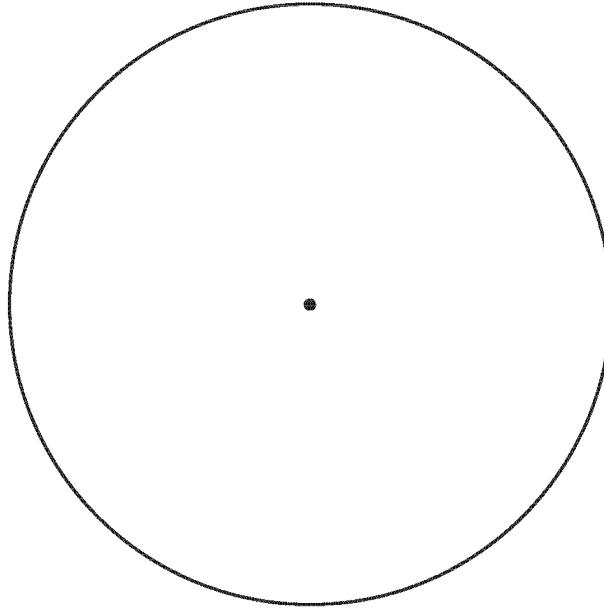
[4]

4)

Ninety pupils were asked what they drank with their breakfast.
Of these pupils, 40 drank tea, 25 drank coffee, 16 drank milk and 9 drank other drinks.
Draw a pie chart to illustrate the different drinks that the pupils had with their breakfast.
You should show how you calculate the angles of your pie chart. [4]
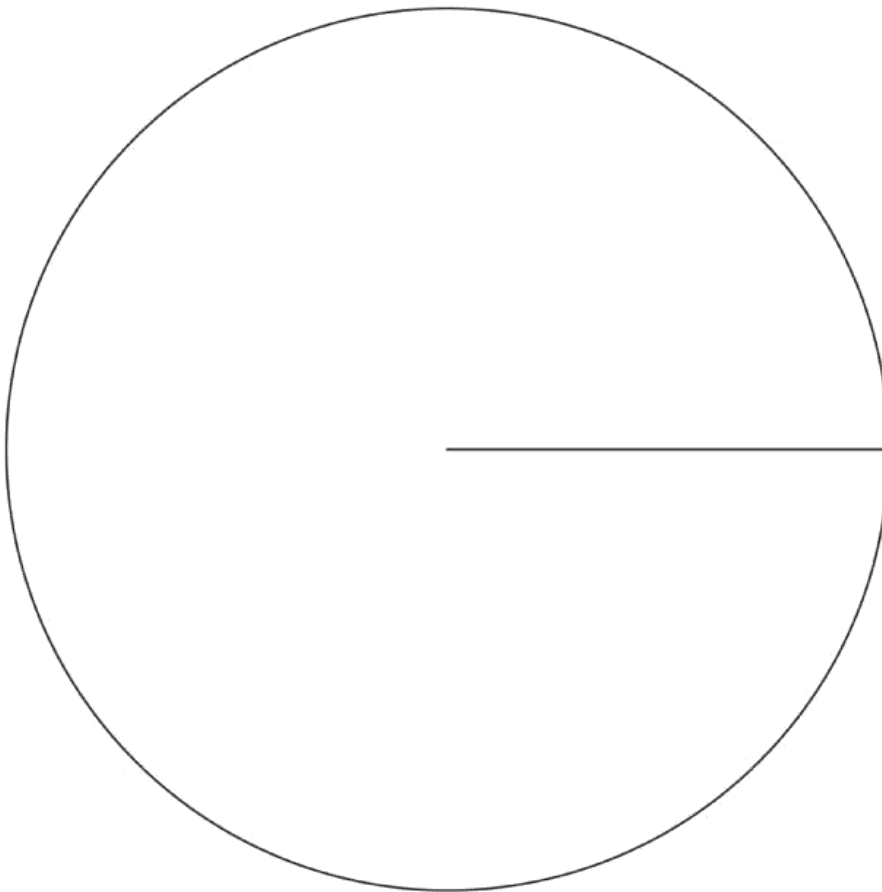
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5)

The number of buns sold in a bakery was recorded as follows.

Cream	16
Fruit	10
Jam	9
Chocolate	25

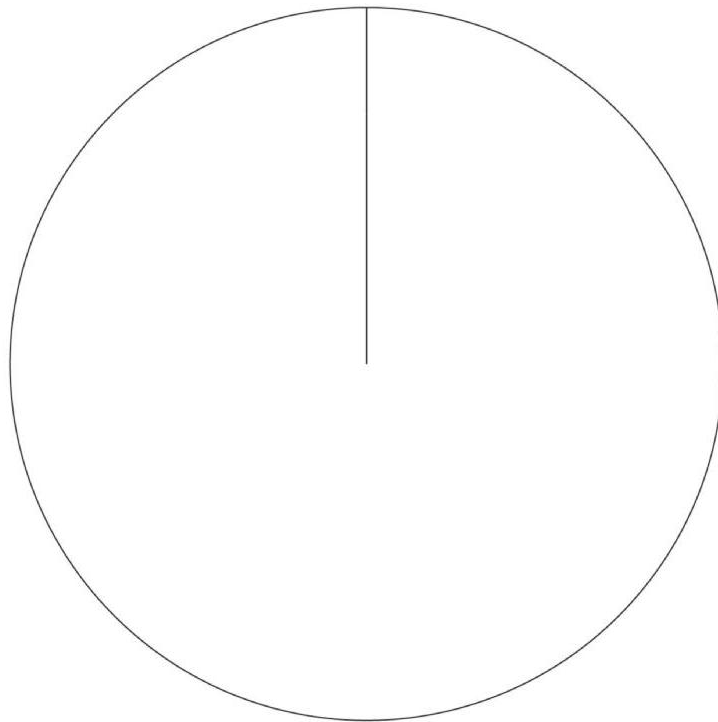Draw a pie chart to illustrate this information.

[4]

6)
A travel agency recorded the types of holiday which were booked on a particular week.

The table below shows the results.

Type of Holiday	Frequency	Degrees
Bed & Breakfast	20	
Hotel half-board	22	
Self-catering	6	
Camping	12	

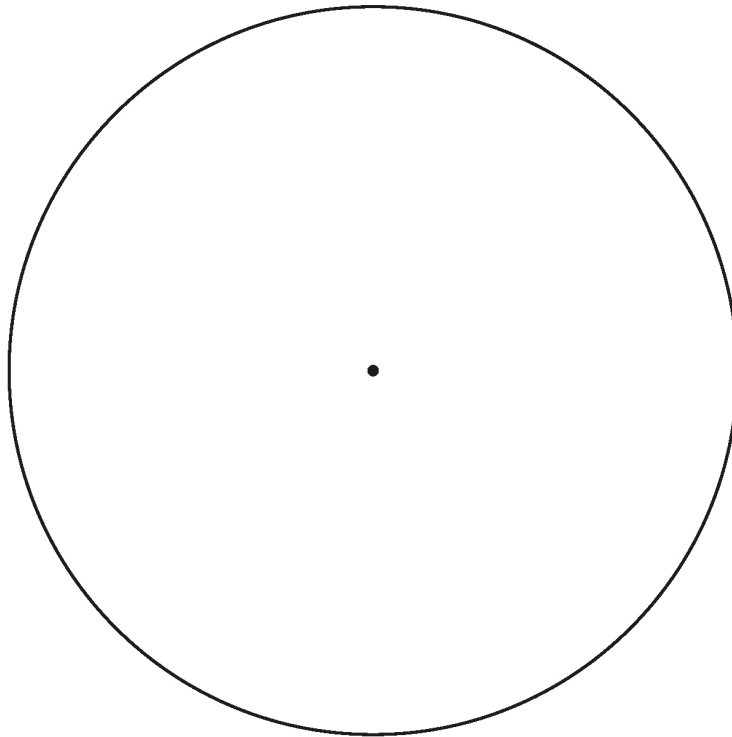Complete an accurate pie chart below to show this information.

[4]

7)
The table shows the various types of car washes available at a garage and the number of each type used by motorists during one month.

Type of car wash	'A'	'B'	'C'	'D'
Number of car washes	96	64	52	28

Draw a pie chart to illustrate this data. You should show how you calculate the angles of your pie chart.
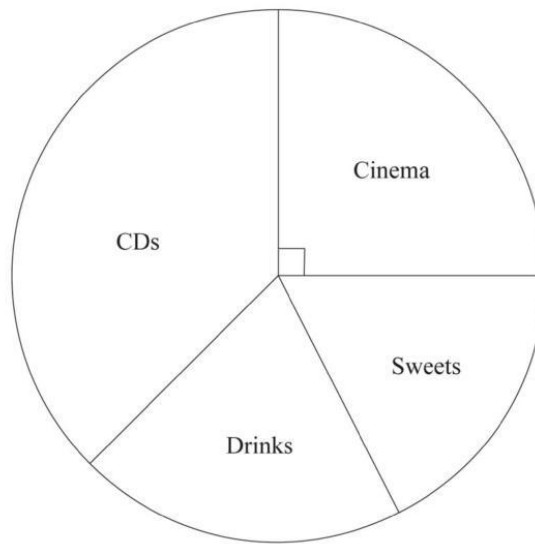

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[4]

8)

The pie chart shows how Angie spent £16 pocket money.

(a) How much money was spent on the cinema?

Answer £ _____ [1]

(b) Estimate how much money was spent on CDs.

Answer £ _____ [1]

(c) Measure the angle for drinks.

Answer _____° [1]

9)
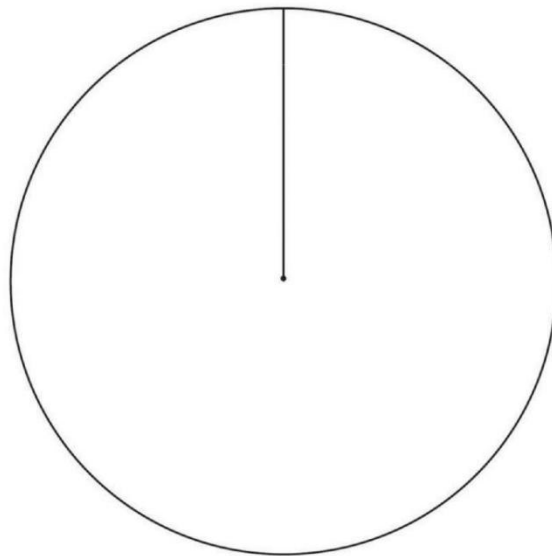Some teenagers were asked the main purpose for which they accessed the Internet.

The results are shown.

e-mails	15%
Surfing	45%
Chat rooms	5%
Music	25%
Shopping	10%

Use the circle to draw a pie chart to illustrate this information.   [4]
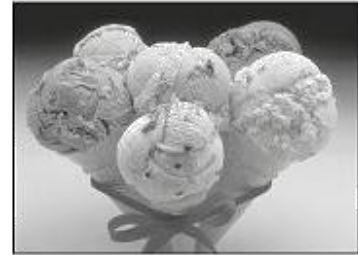
10)

One sunny Sunday morning, the owner of *Lizzy's Ices* ice cream van recorded the number of ice-cream sales.

Flavour of ice cream	Number sold
Vanilla	22
Strawberry	17
Chocolate	12
Banana	15
Toffee	6

(a)   Draw a pie chart to represent the number of ice-cream sales made by *Lizzy's Ices*.
You should show how you calculate the angles of your pie chart.   [4]
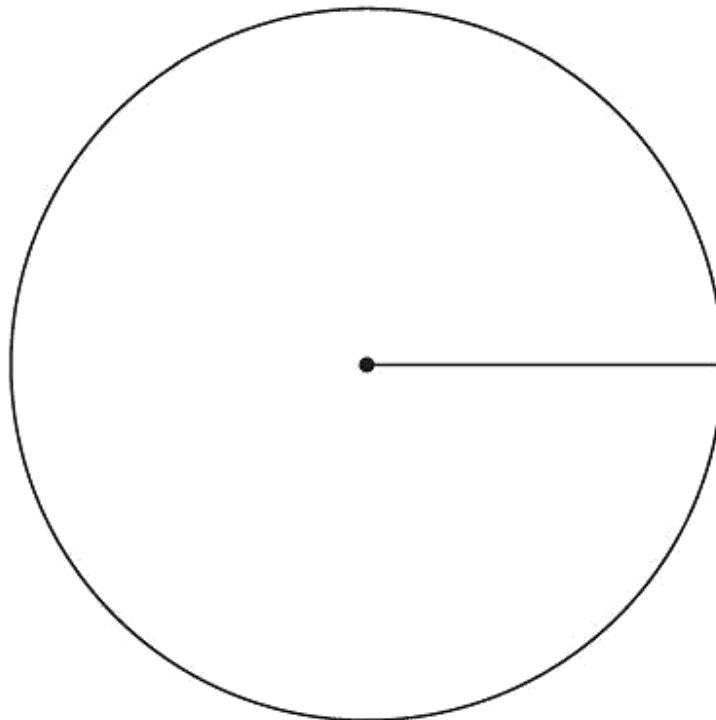
Working:

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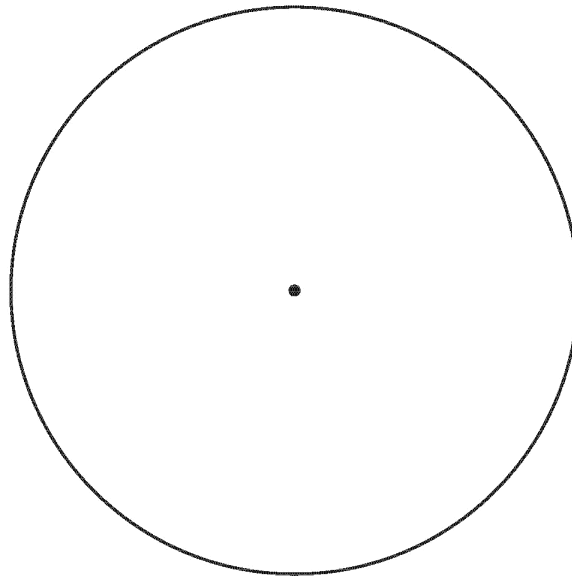
11)

A hospital collected data on the age group of each of 120 people that were treated as outpatients on a particular day.

The results are summarised below.

Age group	Number of people
Pre-school	18
School	24
60 and over	35
Others	43

Draw a pie chart to illustrate these results.
You should show how you calculated the angles of your pie chart.

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[4]

12)
The winning team of the Six Nations Rugby Tournament from 2000 to 2014 is recorded in the table below:

YEAR	WINNING TEAM		YEAR	WINNING TEAM
2014	Ireland		2006	France
2013	Wales		2005	Wales
2012	Wales		2004	France
2011	England		2003	England
2010	France		2002	France
2009	Ireland		2001	England
2008	Wales		2000	England
2007	France			

Use this data to draw a pie chart to illustrate the number of times that each team won the Six Nations Rugby Tournament from 2000 to 2014.
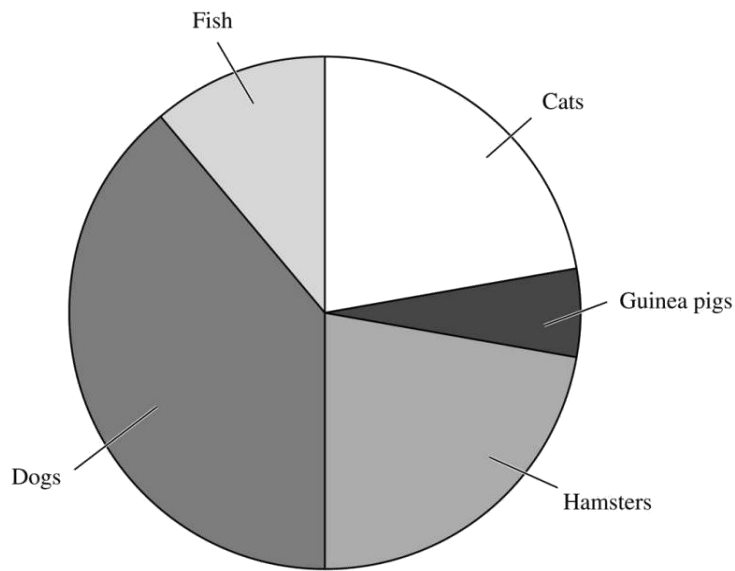You must show how you calculate the angles of your pie chart.   [5]

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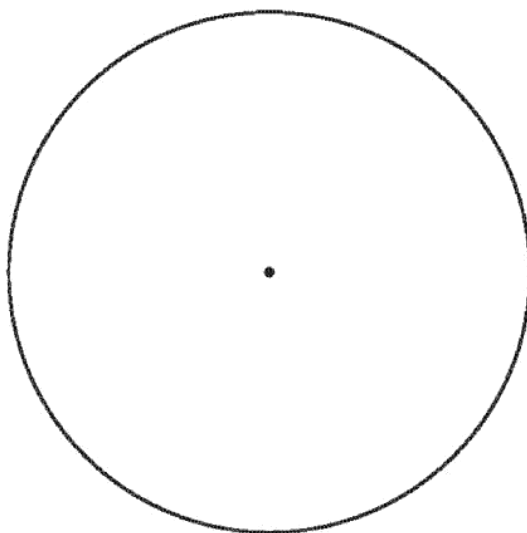
13) The pie chart shows the 18 pets owned by pupils in a class. How many are hamsters?

Answer _____ [3]

14)

Type	Car	Van	Bus	Lorry
Frequency	28	4	2	6

Display this data on a pie chart
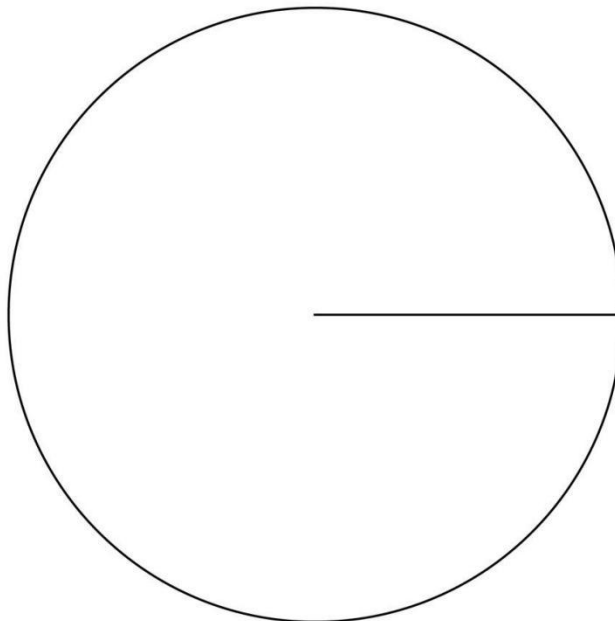
[4]

15)

Drinks	Tea	Coffee	Hot Chocolate	Cold Drink
Number of drinks sold	20	55	11	34

Draw a pie chart to represent the number of drinks sold by the café owner on Tuesday. You should show how you calculate the angles of your pie chart. [4]
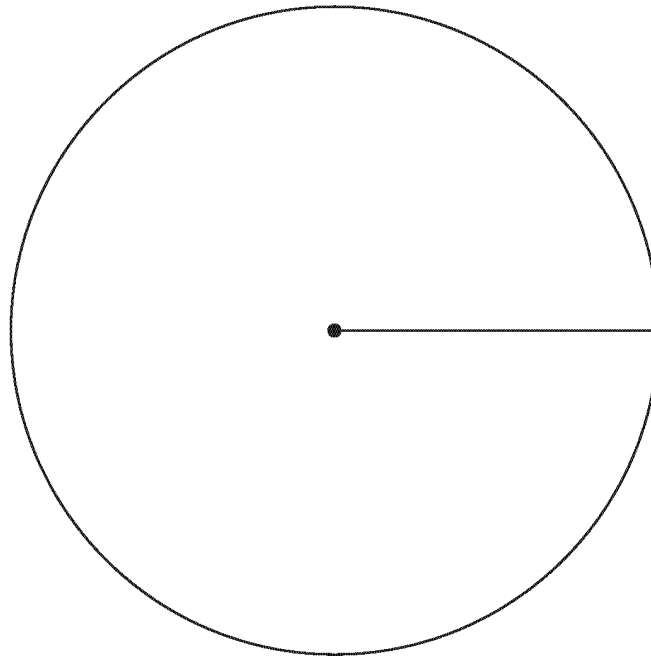
Working:

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16)
In an animal enclosure in a safari park there were:

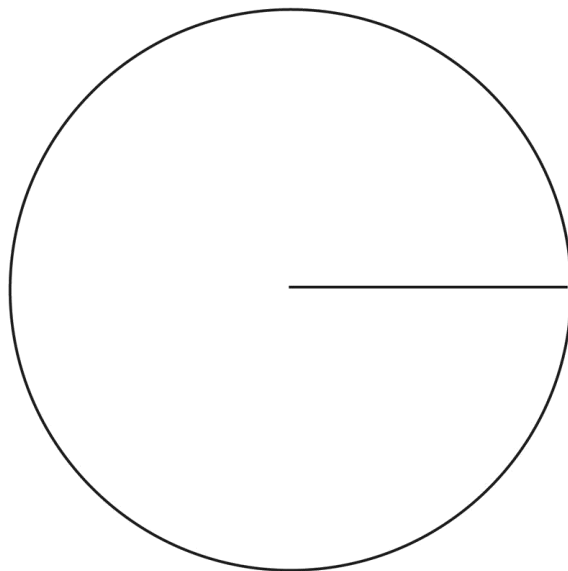   10 zebras

     9 llamas
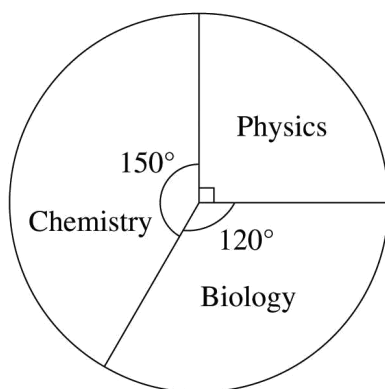
     6 camels

     7 giraffes

and 4 elephants

Draw a pie chart to illustrate this information.

[4]

17) Gao spends 2 hours revising for a Science exam. The pie chart shows how he divided his time among the three subjects.

Physics

150°

Chemistry

120°

Biology

How much time did Gao spend revising Chemistry?

Answer _____ minutes [3]

18) 36 000 people took part in a survey to find out their favourite type of TV programme.
The pie chart shows the results.

(i) How many people chose *Drama* as their favourite type of TV programme?
You must show your working.   [3]

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