

**KS3 Questions - Pie Charts (Proportional Reasoning).**

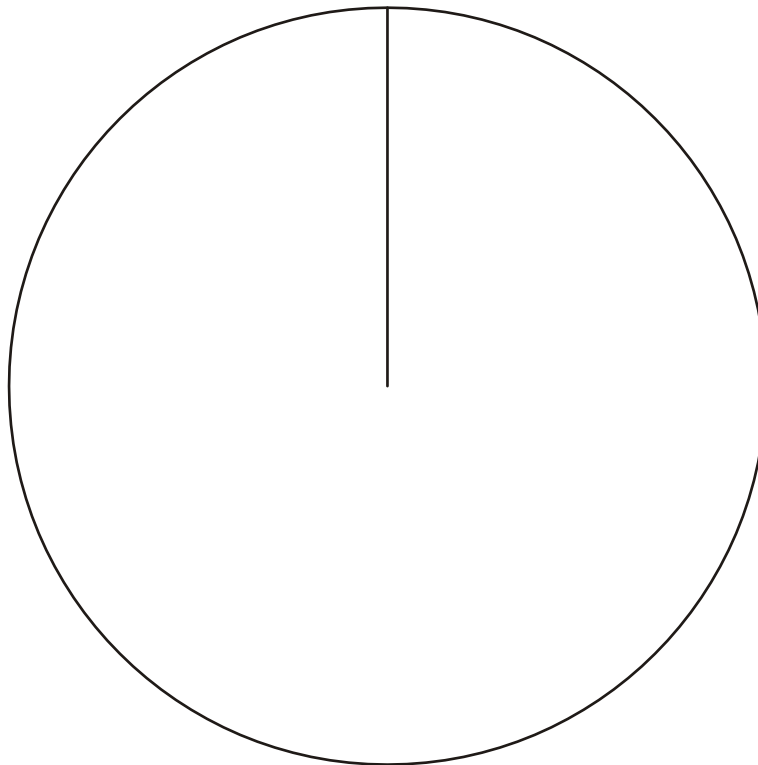
**Level 5.**

1. (a) The holiday destinations of 30 students were recorded.

Destination	France	Spain	Italy	Greece	America
Number of students	6	9	3	7	5

Draw a clearly labelled pie chart to represent this information.

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(4)

- (b) What percentage of the 30 students went to France for their holiday?

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Answer .....%

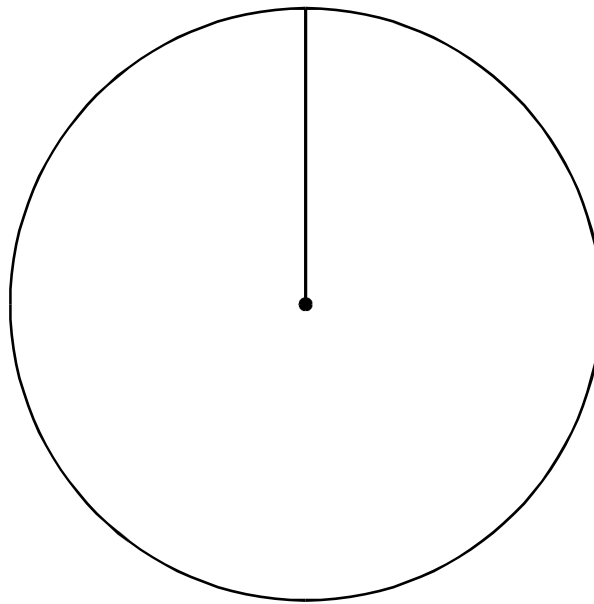
(2)

**(Total 6 marks)**

2. A school entered 144 pupils for GCSE Mathematics as shown in the table.

Tier	Number of pupils
Foundation	46
Intermediate	70
Higher	28

Complete the pie chart for the school GCSE Mathematics entry.  
Label each sector clearly.



**(Total 3 marks)**

3. The table shows the destinations of 180 girls after leaving school.

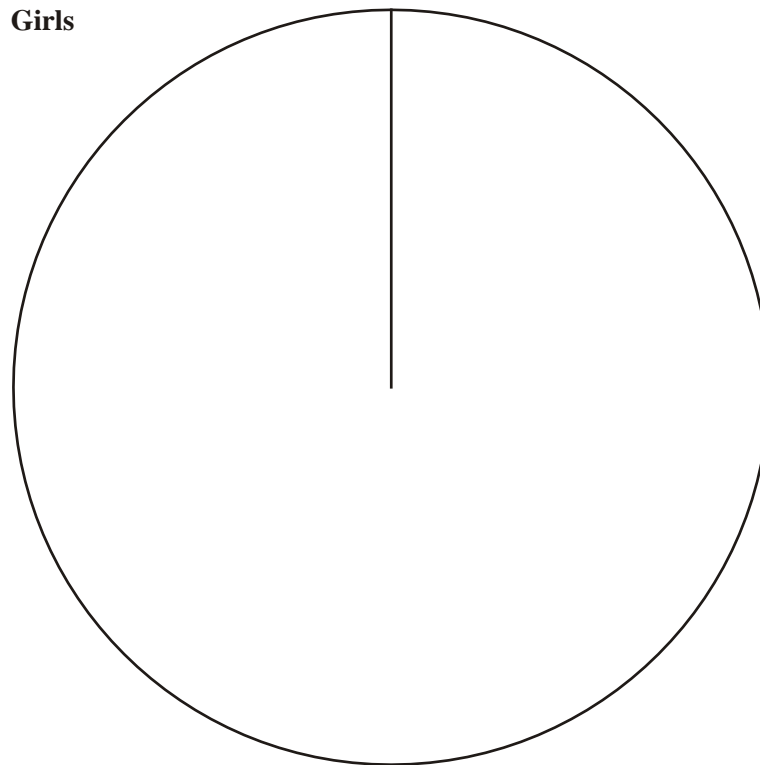
Destination	Number of girls
College	82
Training scheme	55
Employment	31
Other	12

(a) Draw and label a pie chart to represent this information.

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(4)

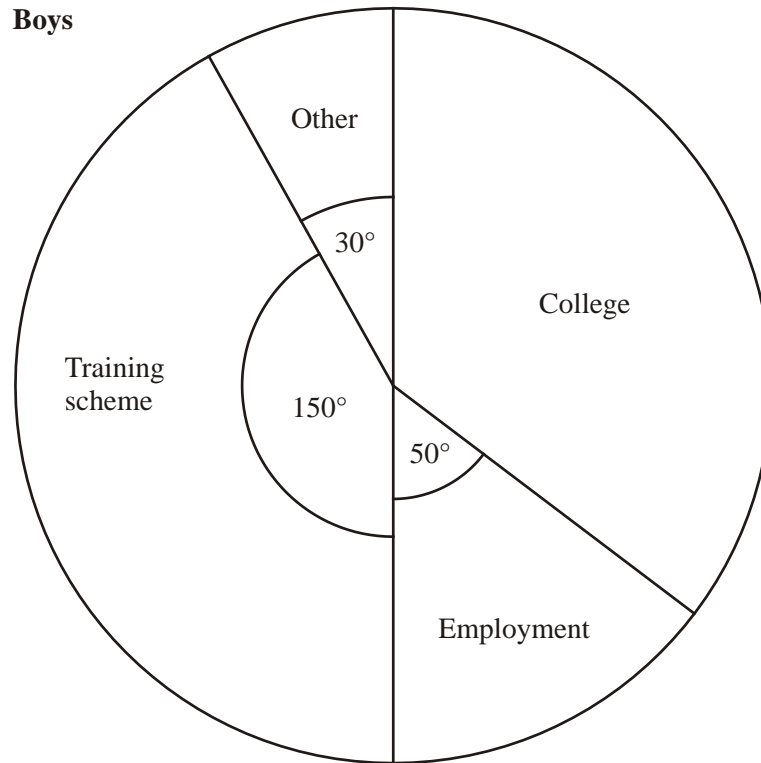
(b) One girl was chosen at random.  
Write down the probability that this girl was on a training scheme.

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Answer .....

(1)

(c) This pie chart shows the destinations of 180 boys after leaving school.



How many boys went to college?

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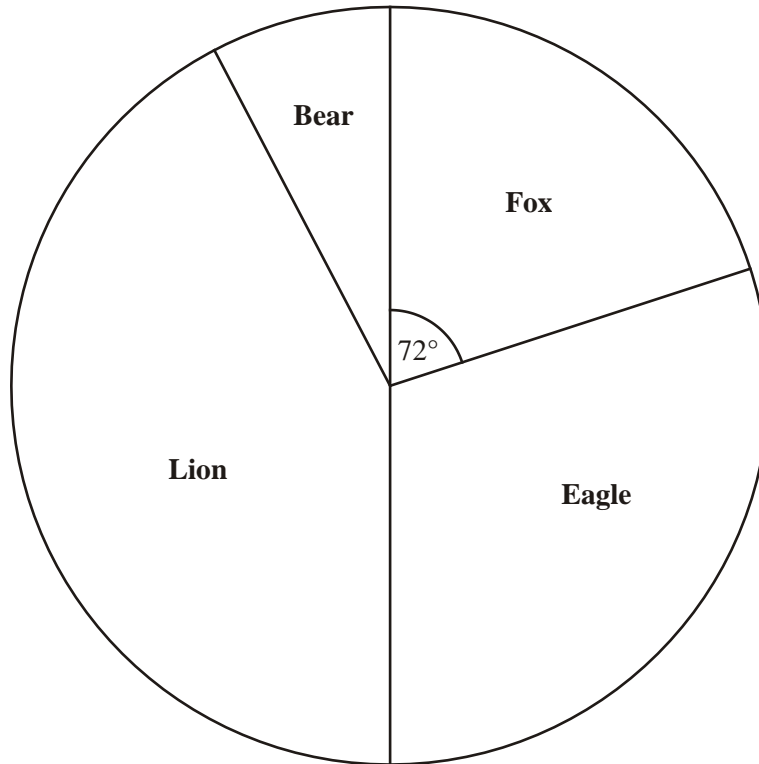
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Answer .....

(3)  
(Total 8 marks)

4. A football club is choosing a new mascot.

The club asks 400 supporters to help choose the mascot.  
The pie chart shows their choices.



(a) How many of the 400 supporters choose the fox?

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Answer .....

(3)

(b) The number of supporters who choose the lion is 168.  
What percentage of the 400 supporters is this?

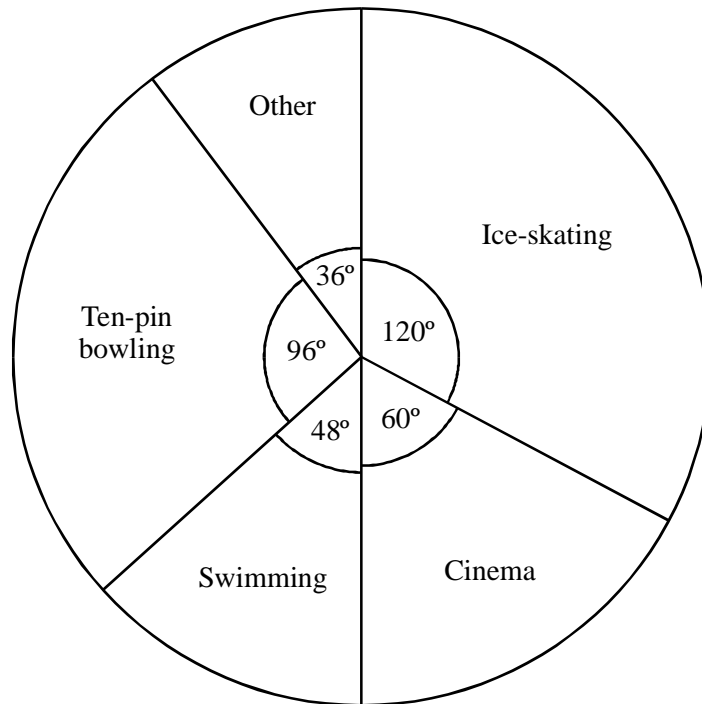
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Answer ..... %

(2)

(Total 5 marks)

5. The pie chart shows the activities chosen by 30 teenagers at a leisure centre.



(a) What fraction of the teenagers chose ice-skating?

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Answer .....

(1)

(b) How many of the teenagers chose ice-skating?

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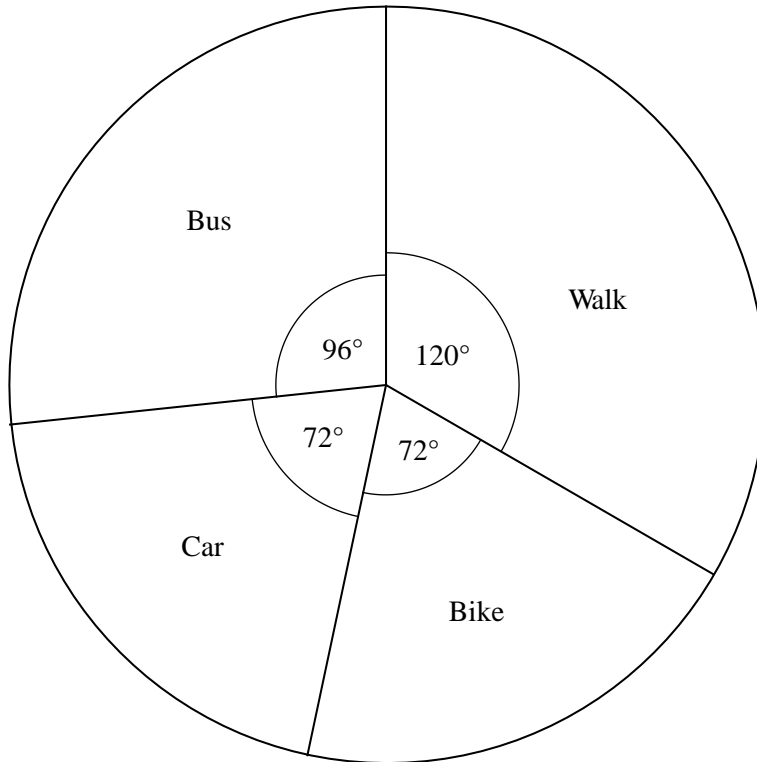
Answer .....

(2)

(Total 3 marks)

## Level 6.

6. (a) The pie chart shows the ways that 30 pupils travel to school.



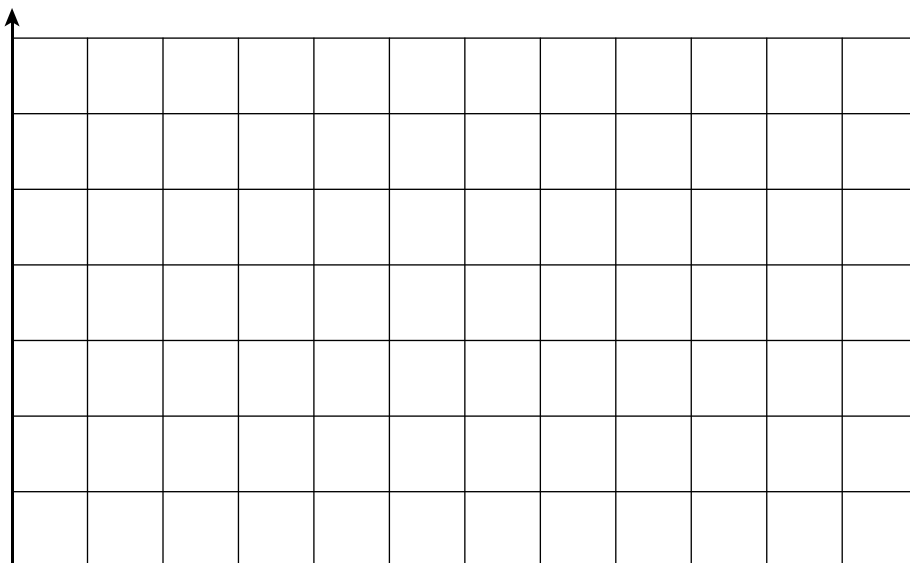
On the grid below, draw and label a bar chart to represent the same information.

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(b) The pupils who walked to school took these times in minutes.

5    12    7    14    23    11    18    10    8    11

Draw an ordered stem and leaf diagram to show this information.

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Key: | 1 | 2 represents 12 minutes

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(3)  
(Total 7 marks)