Question 1

30 pupils were asked about their lunch one day.
The table gives some information about their answers.

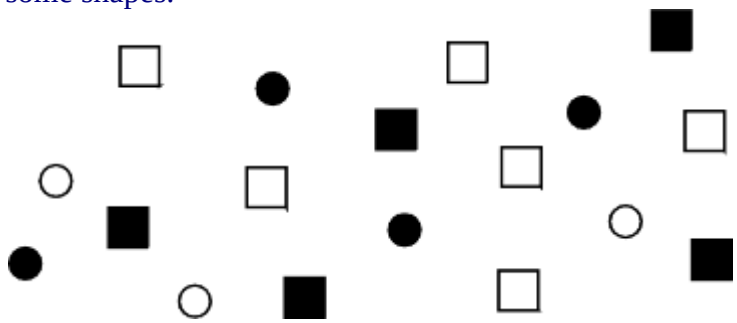
	School dinners	Sandwiches	Other	Total
Boys	12	3		16
Girls	8		2	
Total				30

(a) Complete the table. **(2 marks)**

(b) How many of the girls had sandwiches?..... **(1 mark)**

Question 2

The diagram shows some shapes.



(a) Complete the table to show the number of shapes in each category.

	White	Black
Circle		
Square		

(2 marks)

One of the shapes in the diagram is chosen at random.

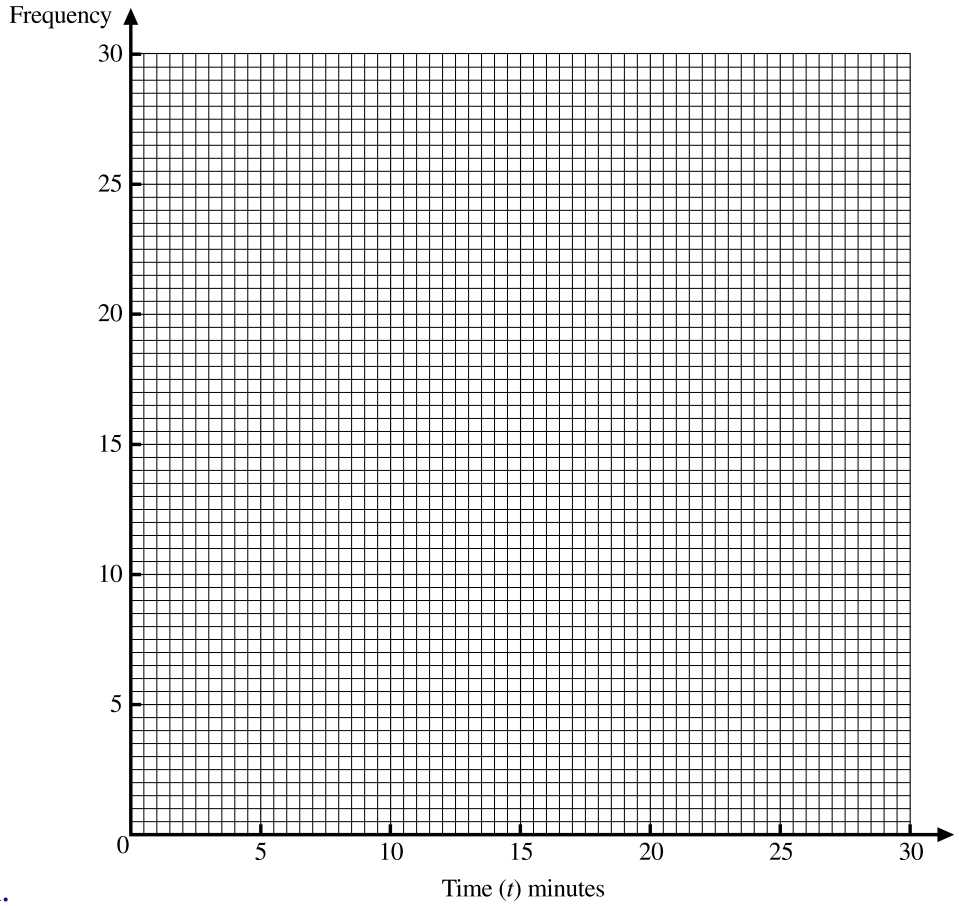
(b) Write down the probability that the shape will be a black square..... **(2 marks)**

Question 3

The table shows the results of a survey to find the times, *t* minutes, taken by students in getting to school.

Time t (min)	Frequency
$0 < t \leq 5$	12
$5 < t \leq 10$	5
$10 < t \leq 15$	30
$15 < t \leq 20$	18
$20 < t \leq 25$	15
$25 < t \leq 30$	10

On the grid below draw a frequency polygon to represent this



data.

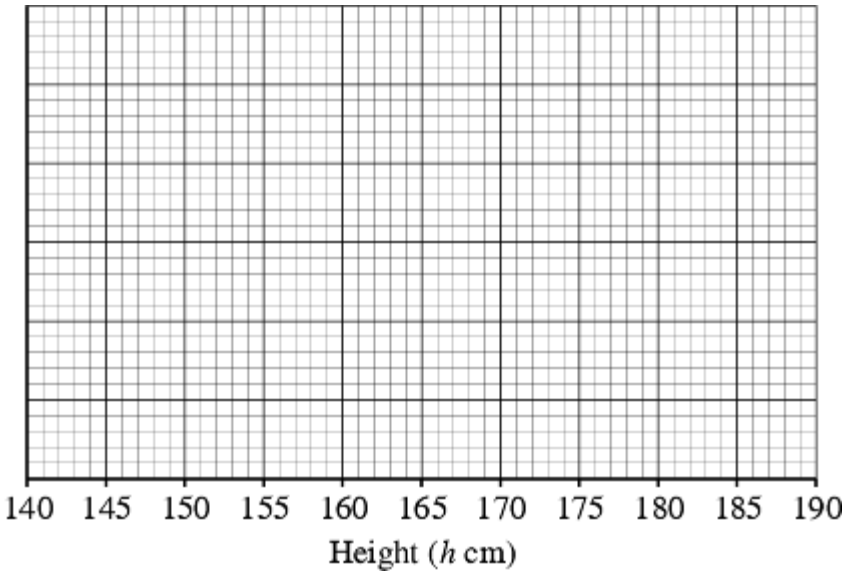
(3 marks)

Question 4

The table gives information about the heights, in centimetres, of some 15 year old students.

Height (h cm)	$145 < h \leq 155$	$155 < h \leq 175$	$175 < h \leq 190$
Frequency	10	80	24

Use the table to draw a histogram.



(3 marks)

Question 5

Each student at Redmond School studies one foreign language
Students can choose from French, German and Spanish.
The headteacher wants to show how many boys and how many girls study each language.

(a) Draw a two-way table the headteacher could use to show this information. **(2 marks)**

23 boys French

(b) Write the number 23 in the correct place in your two-way table. **(1 mark)**

Question 6

Daniel travels to school by bus.
He recorded the journey time, in minutes, each day for fifteen days.
His times are shown below.

21 18 24 31 21 30 19 22
24 32 33 28 22 29 18

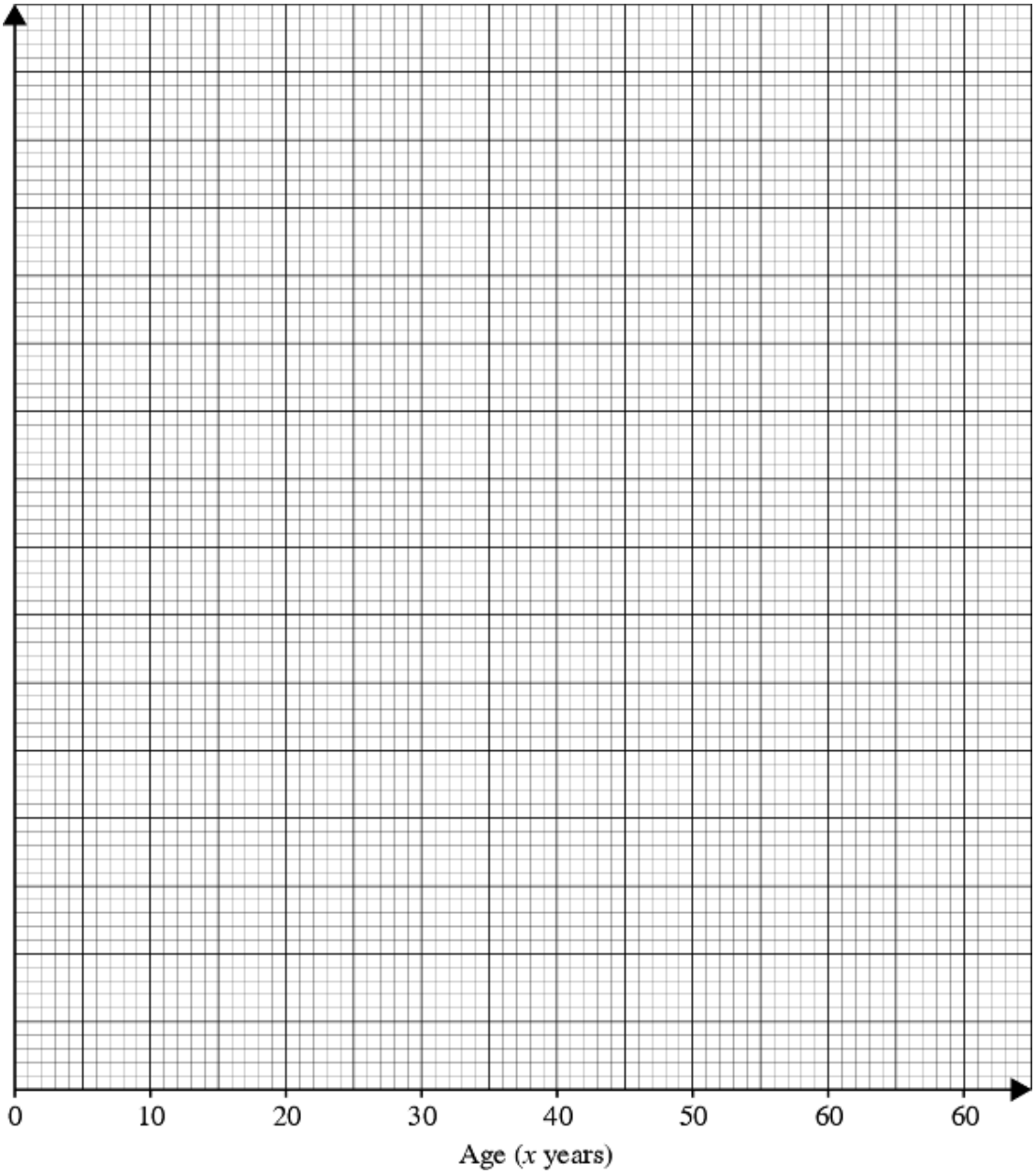
Draw a stem and leaf diagram to show this information. **(3 marks)**

Question 7

The table shows the distribution of the ages of passengers travelling on a plane from London to Belfast.

Age (x years)	Frequency
$0 < x \leq 20$	28
$20 < x \leq 35$	36
$35 < x \leq 45$	20
$45 < x \leq 65$	30

On the grid below, draw a histogram to show this distribution.



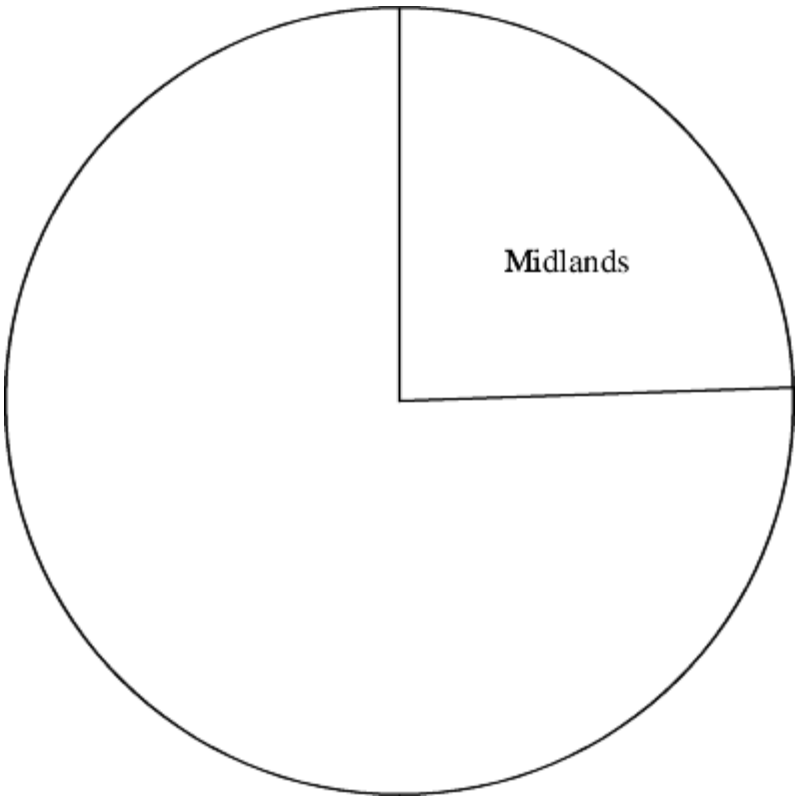
(3 marks)

Question 8

Bhavana asked some people which region their favourite football team came from.
The table shows her results.

Region	Frequency	
Midlands	22	
London	36	
Southern England	8	
Northern England	24	

(a) Complete the accurate pie chart to show these results.
Use the circle given below.



(3 marks)

Question 9

Here are the times, in minutes, taken to change some tyres.

5 10 15 12 8 7 20 35 24 15

20 33 15 25 10 8 10 20 16 10

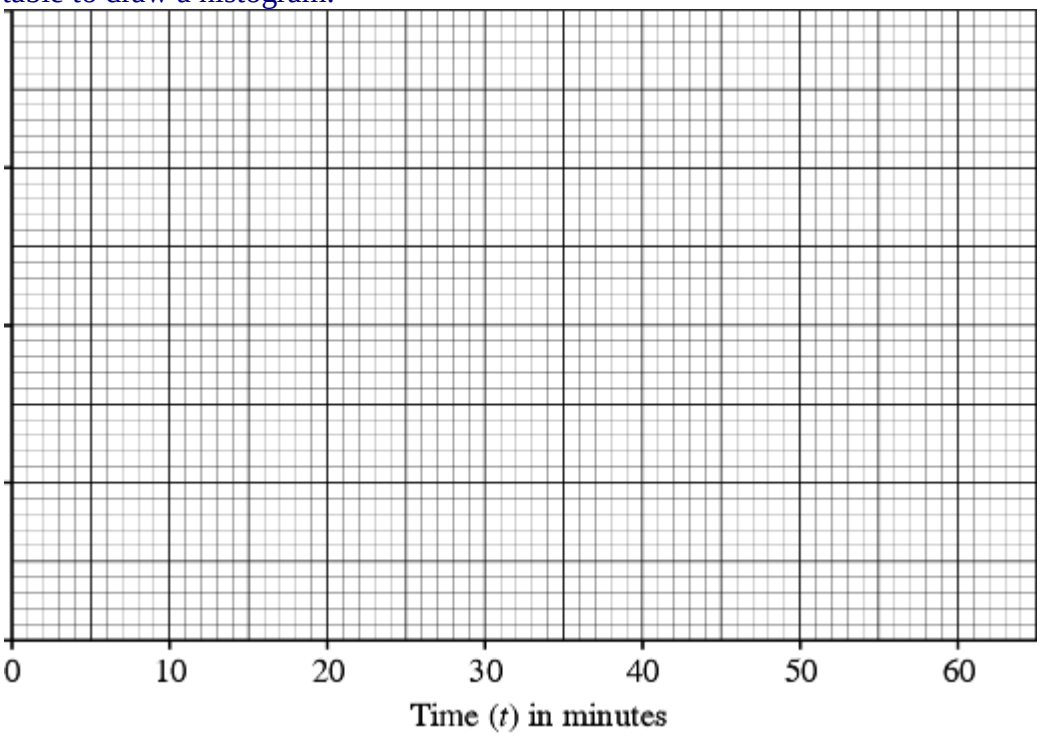
Draw a steam and leaf diagram to show these times. **(3 marks)**

Question 10

The table gives information about how long, in minutes, students took to complete a puzzle.

Time (t) in minutes	Frequency
$0 < t \leq 10$	20
$10 < t \leq 15$	30
$15 < t \leq 30$	60
$30 < t \leq 60$	90

Use the table to draw a histogram.



(4 marks)

Question 11

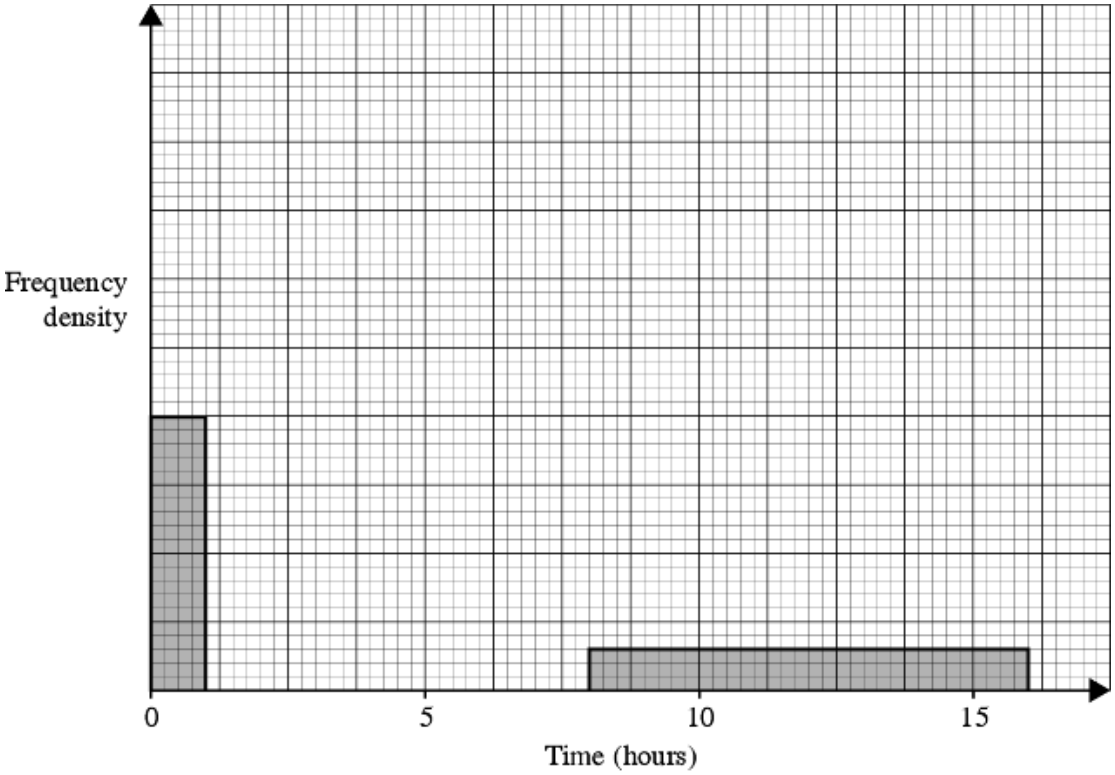
Wayne is going to carry out a survey to record information about the type of vehicles passing the school gate.

Draw a suitable data collection sheet that Wayne could use. **(3 marks)**

Question 12

The unfinished table and histogram show information about the time, in hours, for which cars were parked in a short stay airport car park.

Time (t hours)	Frequency
$0 < t \leq 1$	20
$1 < t \leq 2$	28
$2 < t \leq 4$	34
$4 < t \leq 8$	52
$8 < t \leq 16$	



(a) Use the information in the table to complete the histogram. **(3 marks)**

(b) Use the information in the histogram to complete the table. **(1 mark)**