Name:

GCSE (1 – 9)

Histograms

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

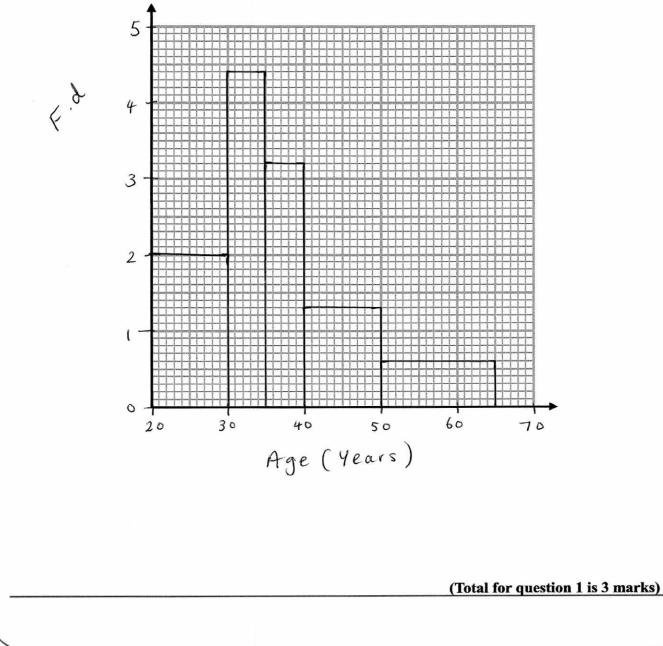
- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- · Check your answers if you have time at the end

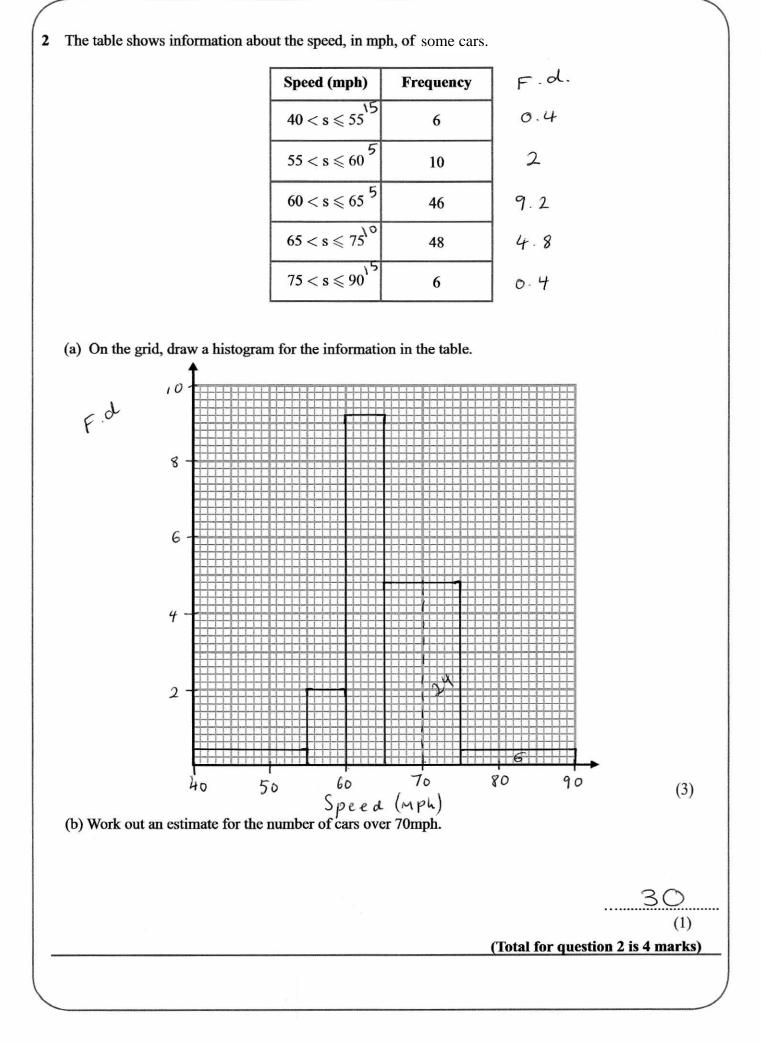
mathsgenie.co.uk

1 The table shows information about the age of 80 teachers.

	Age (years)	Frequency	F.d.	
F.d= Freez width	$20 < a \leq 30^{10}$	20	2	[20-10]
	$30 < a \leq 35^{5}$	22		[22:5]
	$35 < a \leq 40^{5}$	16	3.2	$\begin{bmatrix} 16 \div 5 \end{bmatrix}$
	$40 < a \leq 50^{\prime \circ}$	13	1.3	[13-16]
	$50 < a \leqslant 65$	9	0.6	[9-15]
			-	

On the grid, draw a histogram for the information in the table.

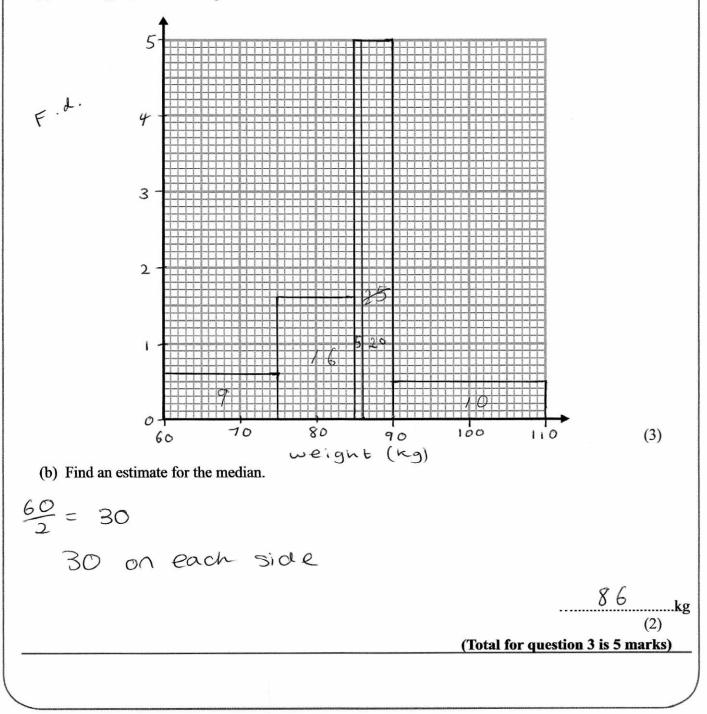




3 The table shows information about the weight of 60 pigs.

Weight (kg)	Frequency	F.d.
$60 < w \leqslant 75^{\prime S}$	9	0.6
$75 < w \leq 85$	16	1.6
$85 < w \leqslant 90^5$	25	5
$90 < w \leq 110^{2.0}$	10	0.5

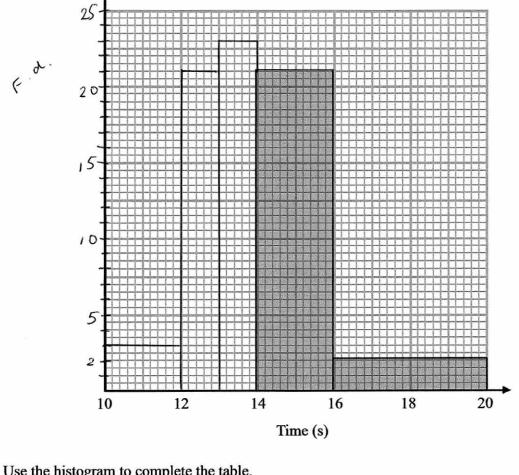
(a) On the grid, draw a histogram for the information in the table.



4 The table shows information about the time, in seconds, taken for some people to run a 100m race.

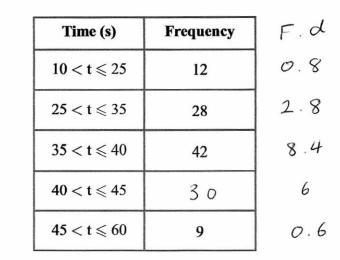
Time (s)	Frequency] F.d
$10 < t \leqslant 12$	6	3
$12 < t \leqslant 13$	21	21
$13 < t \leq 14$	23	23
$14 < t \leq 16$	42	21
$16 < t \leqslant 20$	8	2

(a) Use the information on the table to complete the histogram.



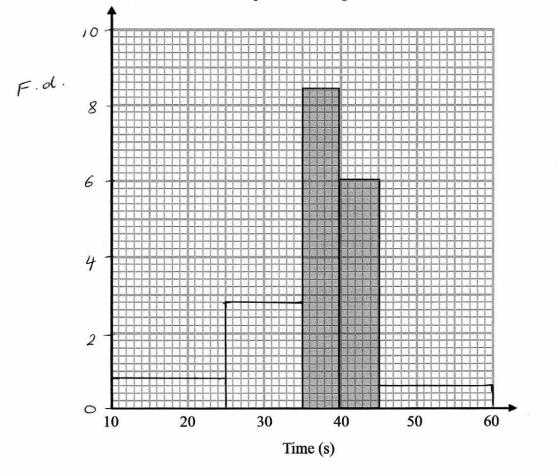
- (b) Use the histogram to complete the table.
 - 21×2=42

(Total for question 4 is 4 marks)



5 The table shows information about the time, in seconds, taken for some people to complete a puzzle.

(a) Use the information on the table to complete the histogram.



(b) Use the histogram to complete the table.

(Total for question 5 is 4 marks)

