7 The table gives information about the length of time, in seconds, that each of 28 birds spent on Ali's bird table on Monday.

| Length of time (*t* seconds)	Frequency
$0 < t \leqslant 5$	10
$5 < t \leqslant 8$	8
$8 < t \leqslant 10$	5
$10 < t \leqslant 15$	3
$15 < t \leqslant 30$	2
$t > 30$	0

(a) Find the class interval that contains the median length of time that the birds spent on the bird table on Monday.

(1)

(b) Calculate an estimate, in seconds to one decimal place, for the mean length of time that the birds spent on the bird table on Monday.

(4)

The incomplete histogram below gives some information about the length of time, in seconds, that each of 35 birds spent on Ali's bird table on Tuesday.
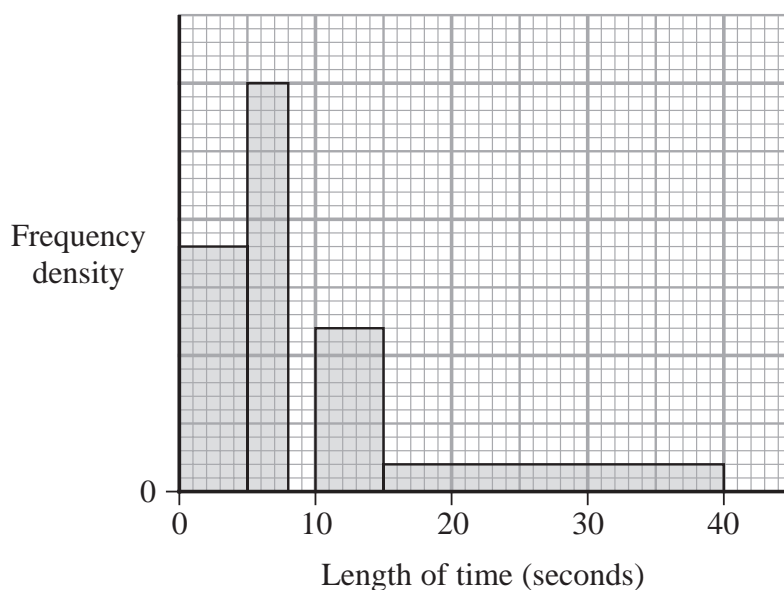
On Tuesday

9 of the birds spent between 5 seconds and 8 seconds on the bird table
6 of the birds spent between 8 seconds and 10 seconds on the bird table
no bird spent longer than 40 seconds on the bird table.

(c) Use this information to complete the histogram.

(1)

(d) Find the proportion of birds on Tuesday that spent longer than 15 seconds on the bird table.

(1)

Turn over for a spare copy of the histogram if you need to redraw your bar.

Question 7 continued

P 6 2 0 1 9 A 0 1 7 3 6

Question 7 continued

P 6 2 0 1 9 A 0 1 8 3 6

Question 7 continued

Only use this histogram if you need to redraw your bar.

Length of time (seconds)

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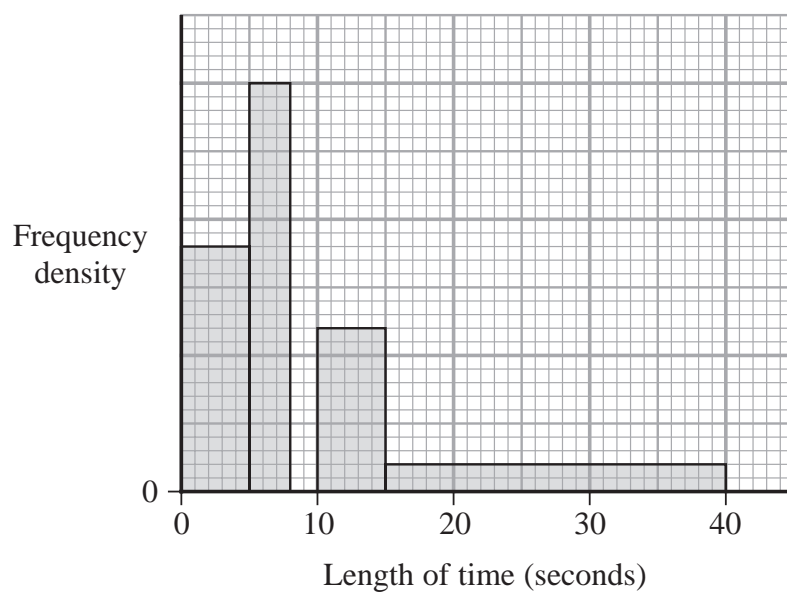
(Total for Question 7 is 7 marks)