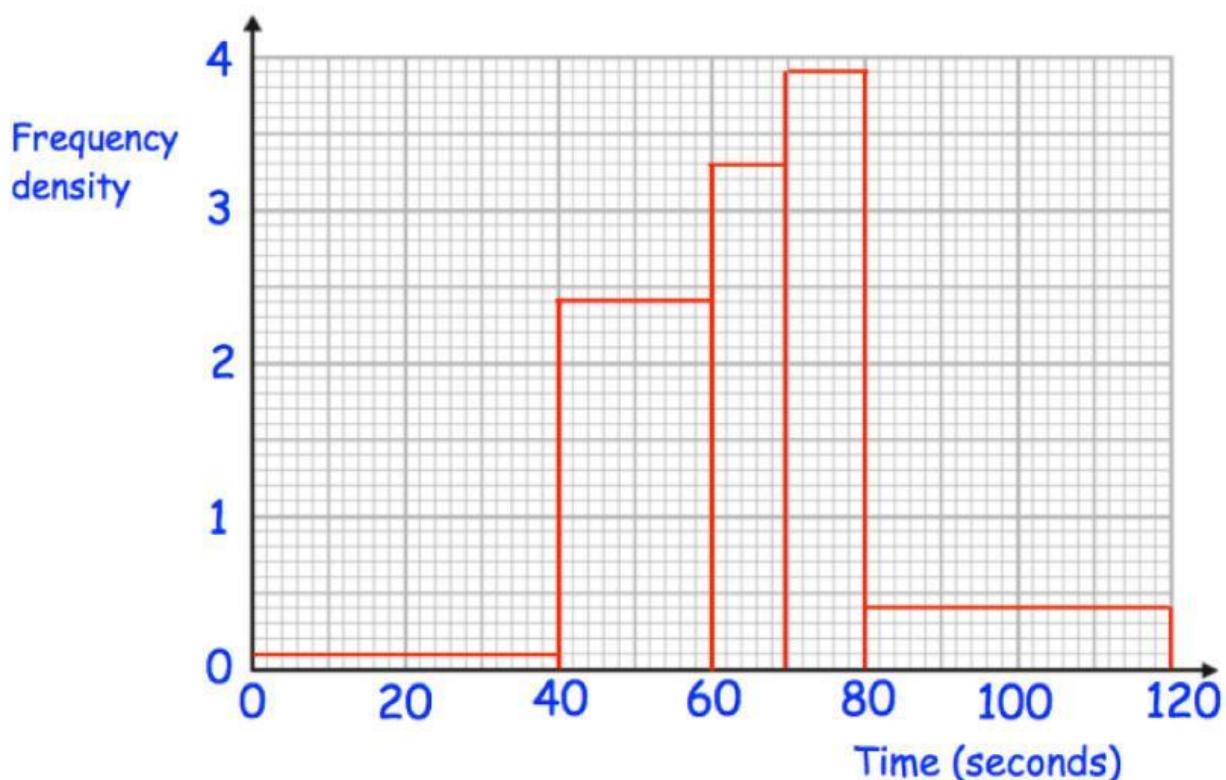


READING AND INTERPRETING HISTOGRAMS

(with equal and unequal intervals)

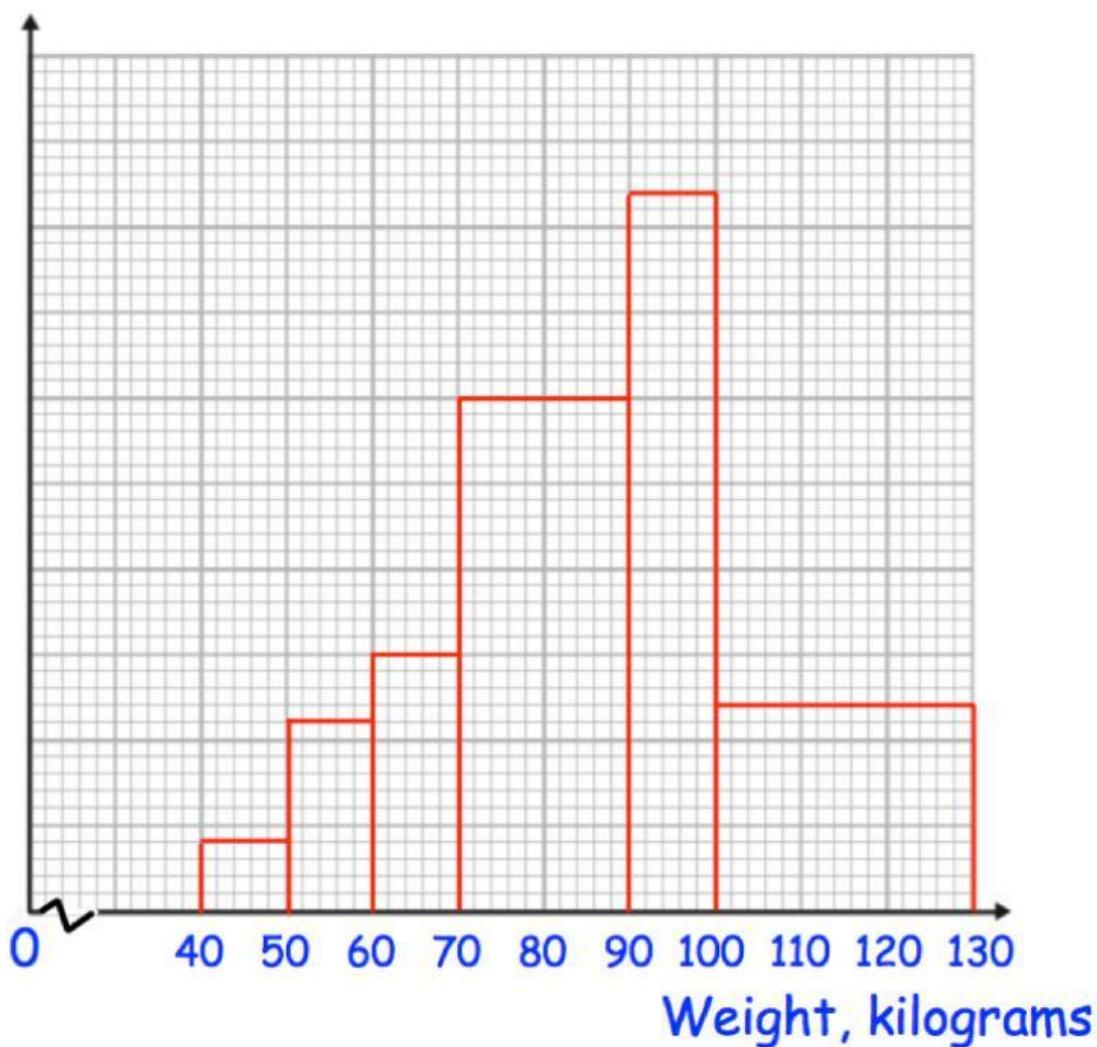
The histograms shows information about the time taken by 140 students to complete a puzzle.



(a) Complete this frequency table.

Time, t seconds	Frequency
$0 < t \leq 40$	4
$40 < t \leq 60$	
$60 < t \leq 70$	33
$70 < t \leq 80$	
$80 < t \leq 120$	16

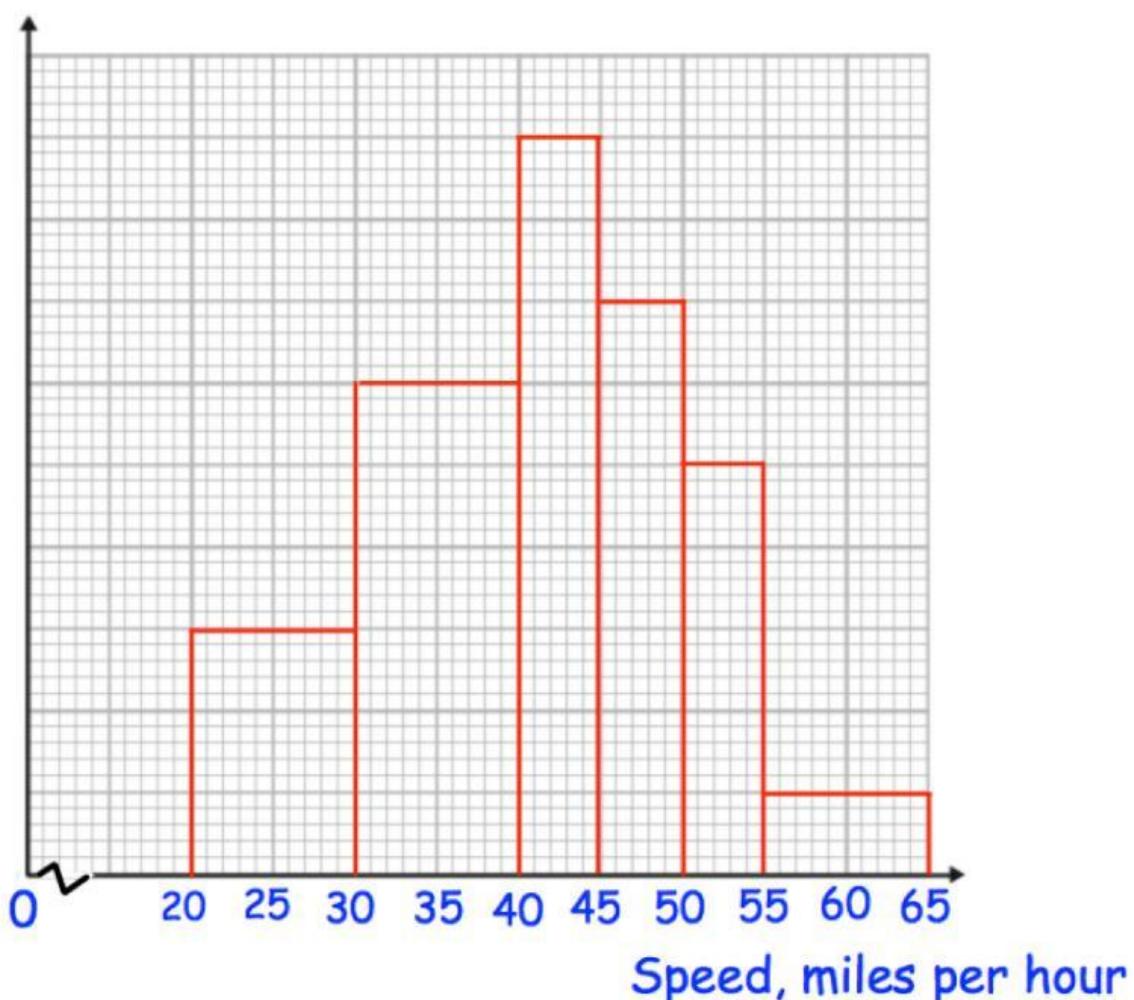
The histogram shows the weights in kilograms of 504 athletes.



45 athletes weigh under 60kg.

Calculate an estimate of the number of athletes between 70 and 95kg.

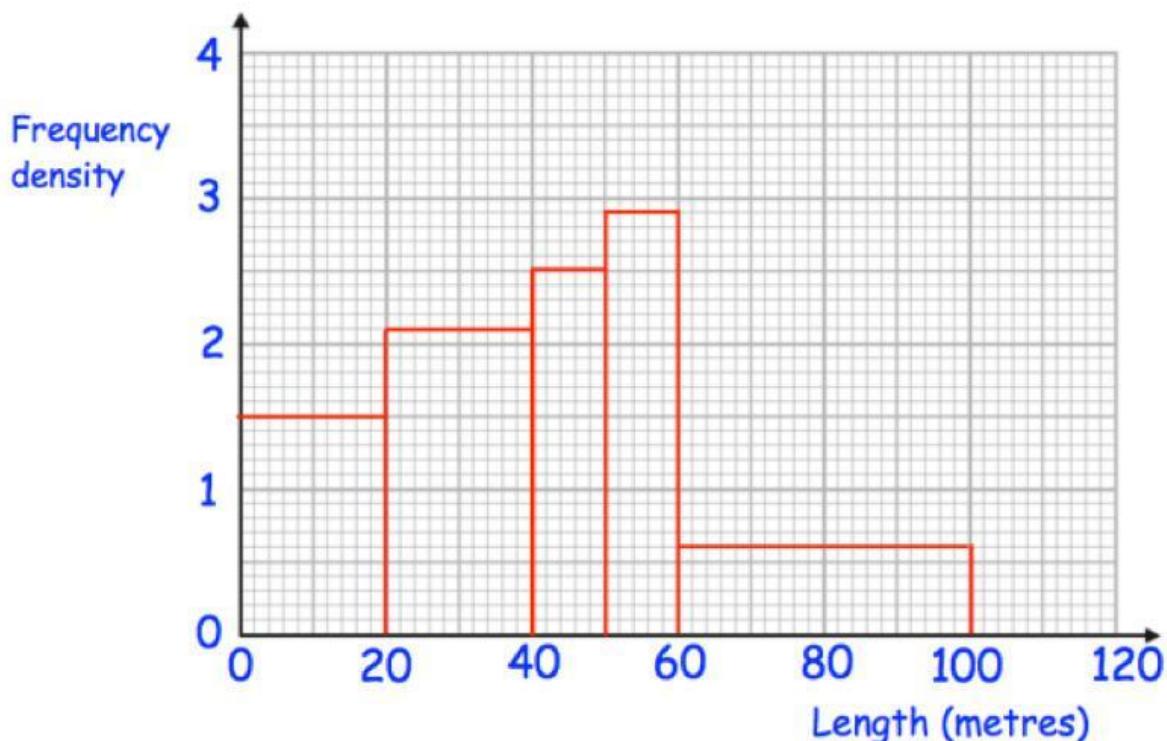
The histogram shows the speeds in miles per hour of 82 cars on a road.



14 cars were travelling over 50 mph.

Calculate an estimate of the number of cars that were travelling between 42 and 49 mph.

The histogram shows information about how far 150 children swam, when trying to get their swimming certificates.

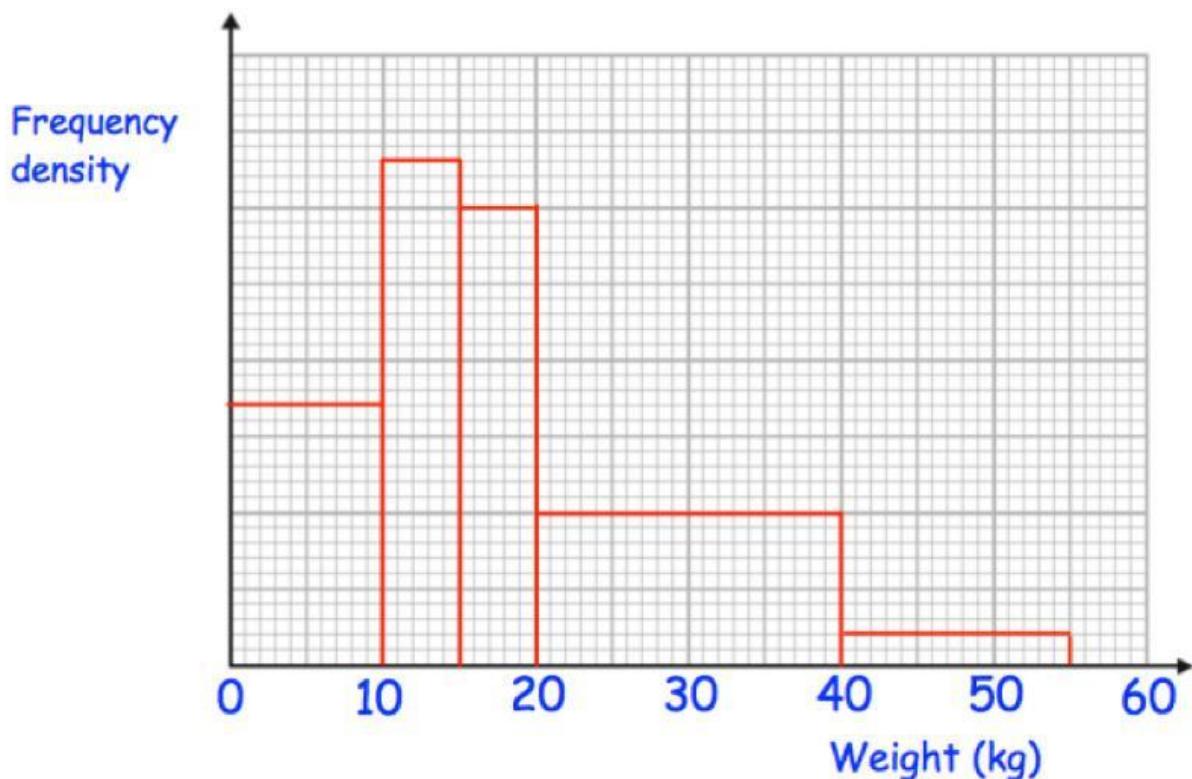


(a) Complete this frequency table.

Length, l metres	Frequency
$0 < l \leq 20$	30
$20 < l \leq 40$	
$40 < l \leq 50$	25
$50 < l \leq 60$	
$60 < l \leq 100$	24

(b) 10% of the swimmers swam further than y metres.
Calculate an estimate of y .

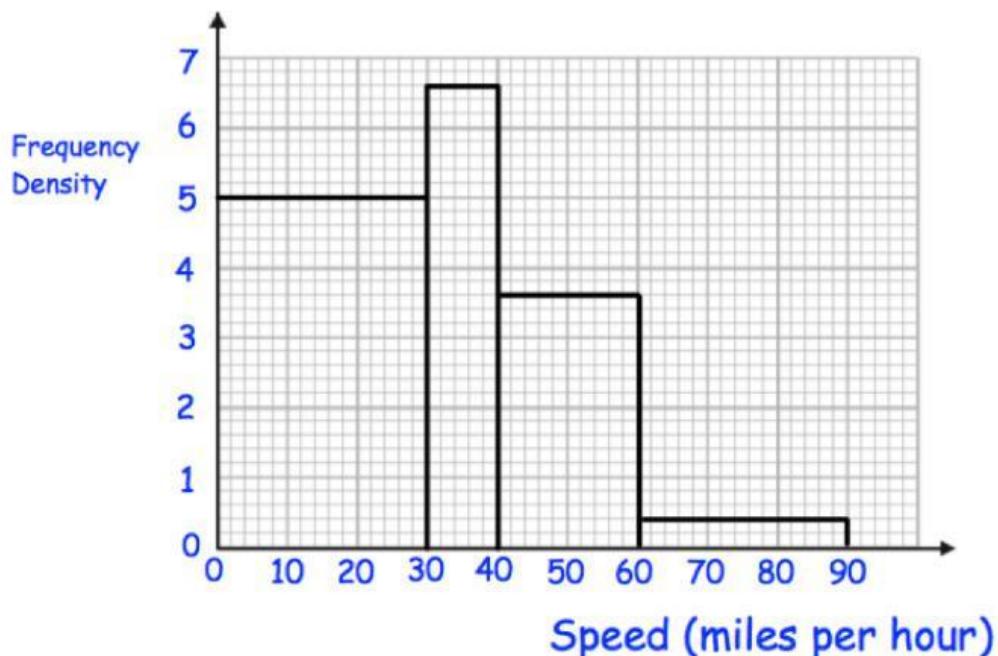
The incomplete table and histogram give some information about the weights of dogs.



Use the information in the histogram to complete the frequency table.

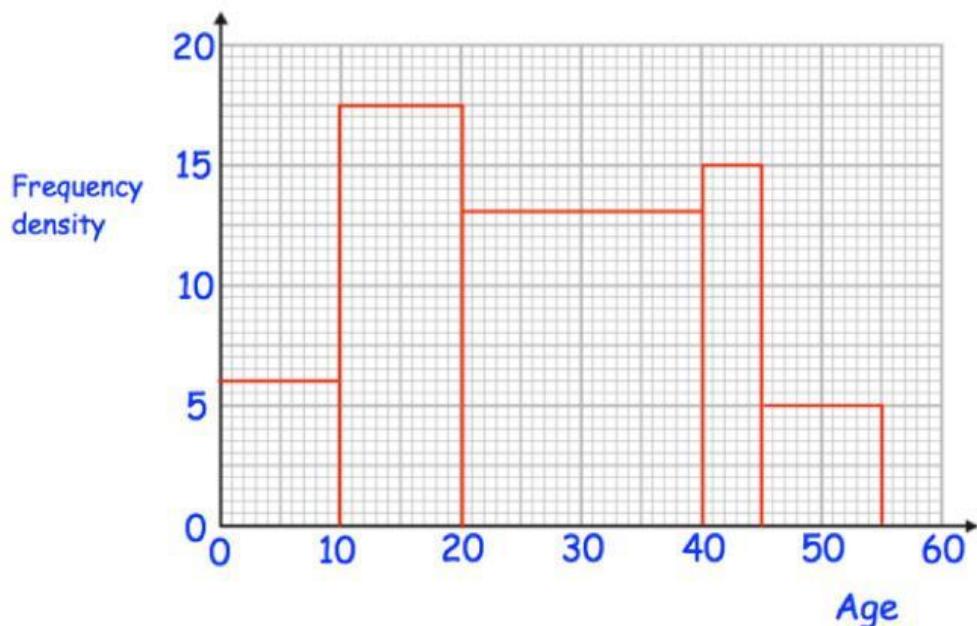
weight (w kg)	Frequency
$0 < w \leq 10$	34
$10 < w \leq 15$	33
$15 < w \leq 20$	
$20 < w \leq 40$	
$40 < w \leq 55$	6

The histogram shows information about the speeds, in miles per hour, that cars travelled through a village. The speed limit is 60mph.



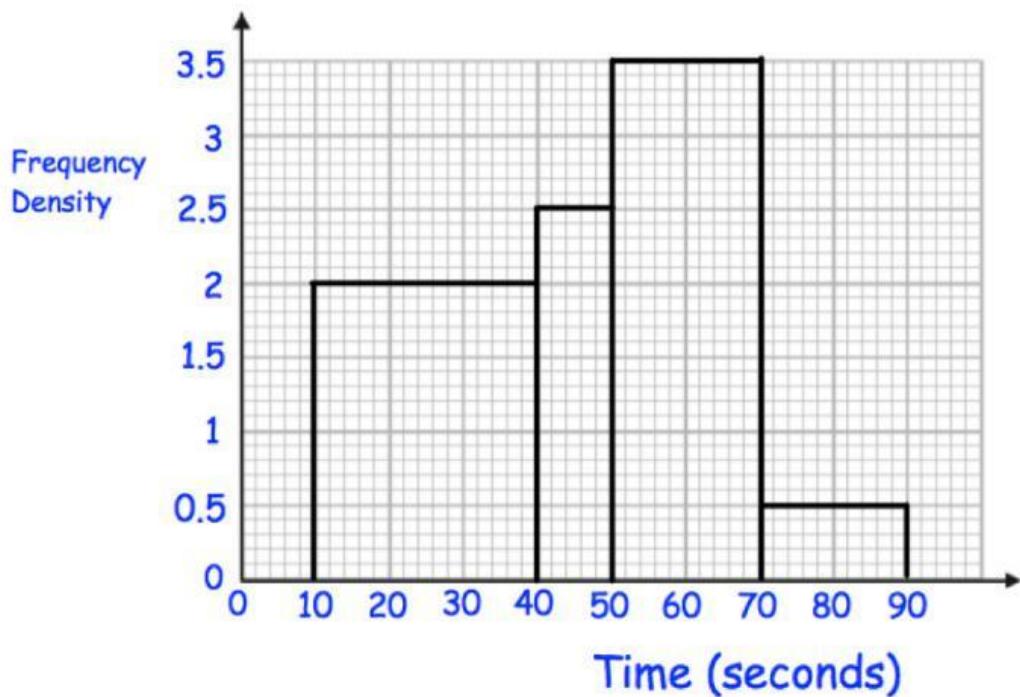
Work out the percentage of cars that were under the speed limit of 60mph.

The histogram shows the ages of visitors to a library on one morning.



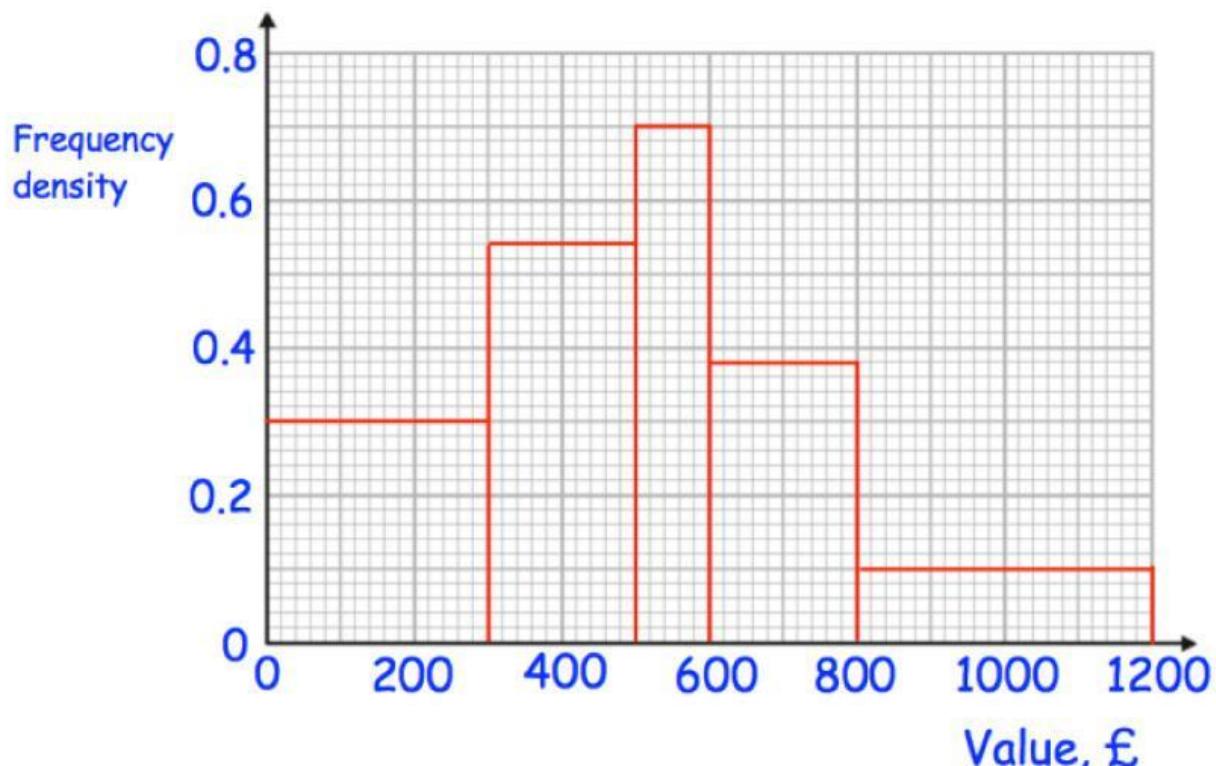
What percentage of visitors were over 40 years old?

A group of students were asked to complete a puzzle.
The histogram shows the distribution of the times taken.



- Work out how many students took between 50 and 70 seconds to complete the puzzle.
- Calculate an estimate of the number of students who took under 30 seconds to complete the puzzle.

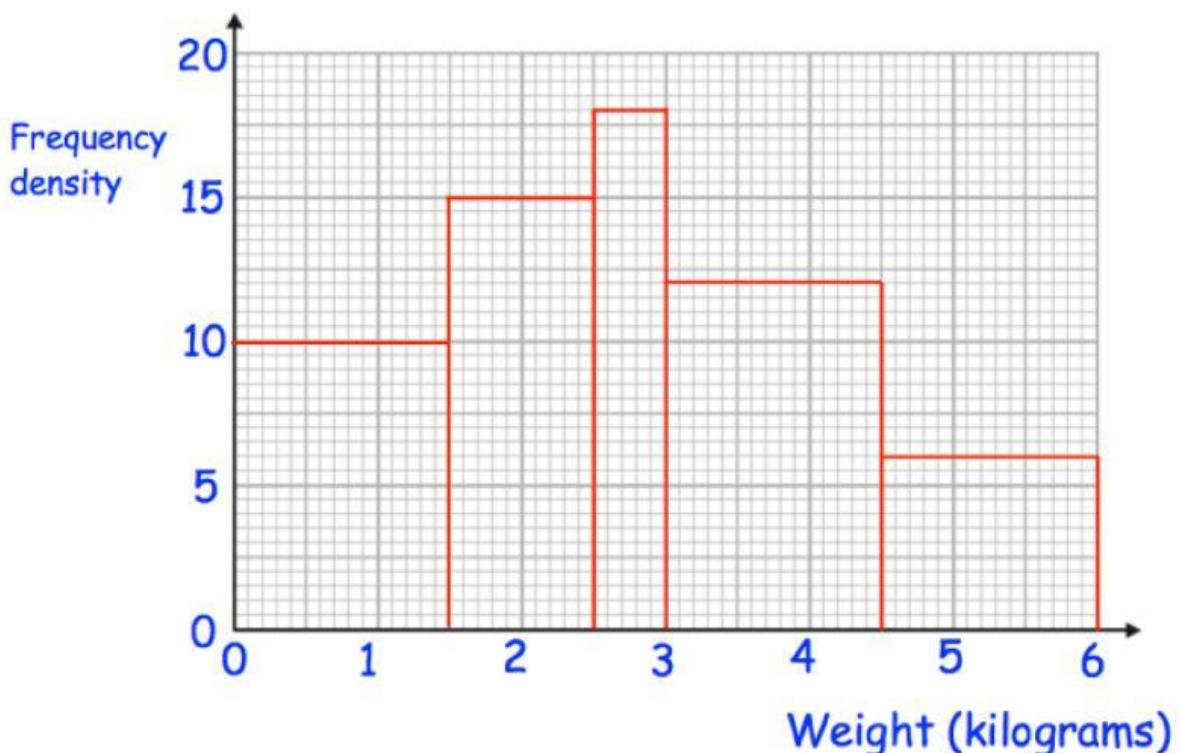
Below is a histogram showing information about the value of antiques.



Use the histogram to complete the frequency table.

Values, v	Frequency
$0 < v \leq 300$	
$300 < v \leq 500$	
$500 < v \leq 600$	
$600 < v \leq 800$	
$800 < v \leq 1200$	

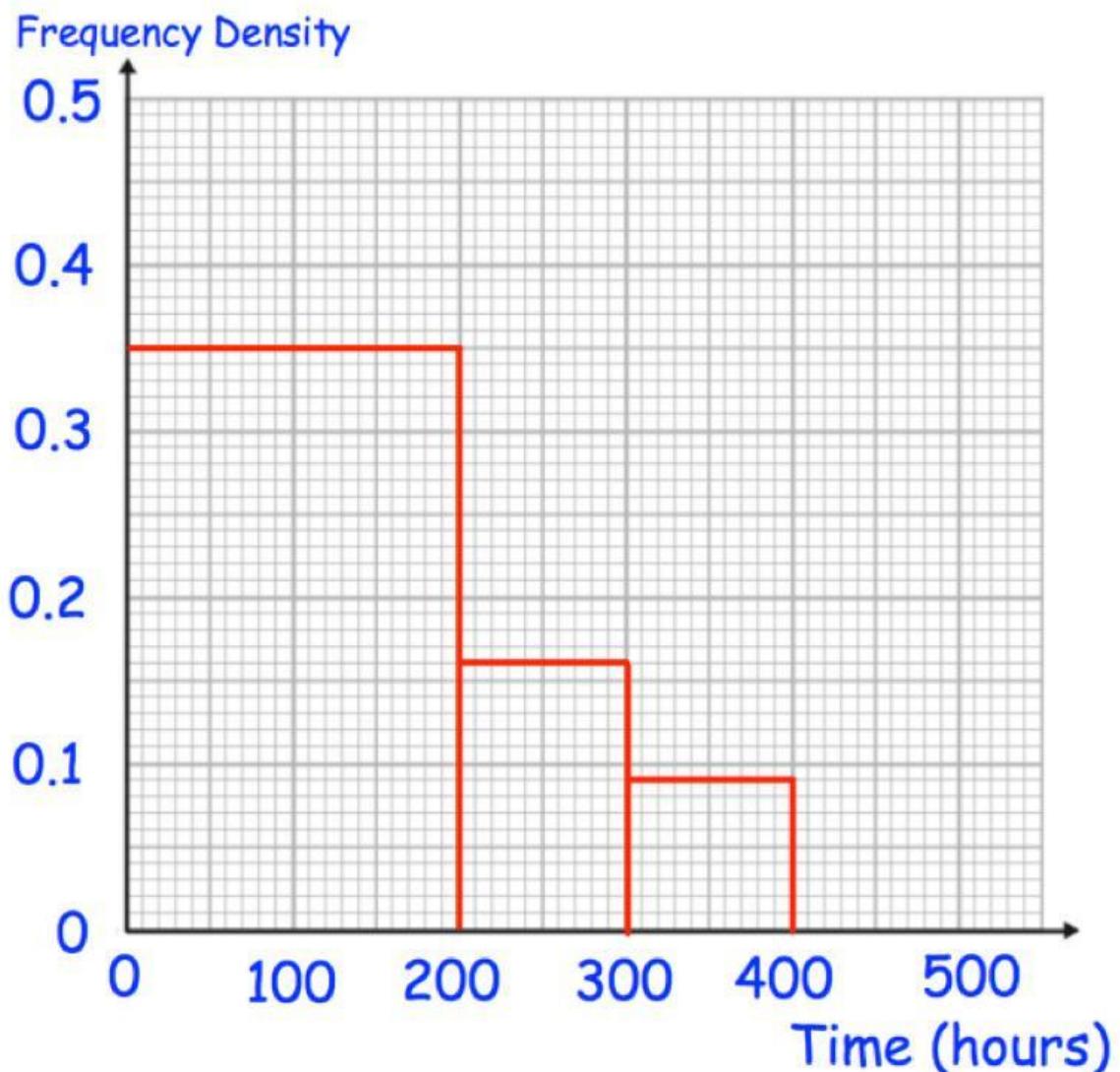
Below is a histogram showing information about the weight of parcels.



Use the histogram to complete the frequency table.

Weight, w	Frequency
$0 < w \leq 1.5$	
$1.5 < w \leq 2.5$	
$2.5 < w \leq 3$	
$3 < w \leq 4.5$	
$4.5 < w \leq 6$	

The histogram shows the distribution of time spent flying by Ryanjet pilots.



Estimate the number of pilots who have flown under 250 hours.