1 200 people recorded the time they spent on social media one day.

The table shows the results.

Time, t (mins)	Frequency	Midpoint	
$0 \leqslant t < 30$	24		
$30 \leqslant t < 50$	76		
$50 \leqslant t < 60$	52		
$60 \leqslant t < 90$	48		
	Total = 200		

1 (a) Work out an estimate of the mean time.

[3 marks]

Answer _____ mins

1 (b) Draw a histogram to represent the results.

[4 marks]

Time, t (mins)	Frequency	Class width	
$0 \leqslant t < 30$	24		
$30 \leqslant t < 50$	76		
$50 \leqslant t < 60$	52		
$60 \leqslant t < 90$	48		

Frequency density

Time, t (mins)
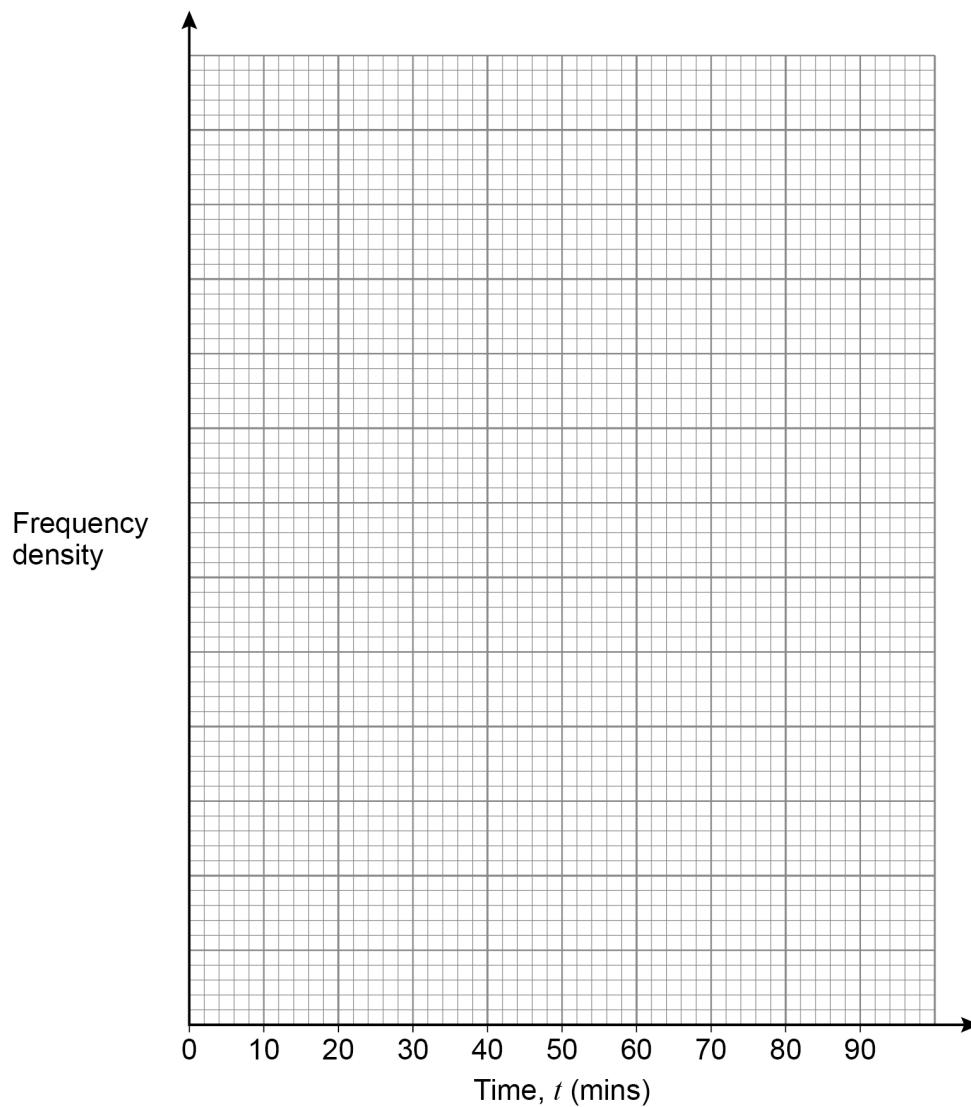
2   Here is some information about the ages of babies at a clinic.

Age, x (weeks)	Frequency		
$0 \leqslant x < 5$	18		
$5 \leqslant x < 10$	23		
$10 \leqslant x < 20$	17		
$20 \leqslant x < 50$	21		

Draw a histogram to represent the information.

[4 marks]

Ages of babies
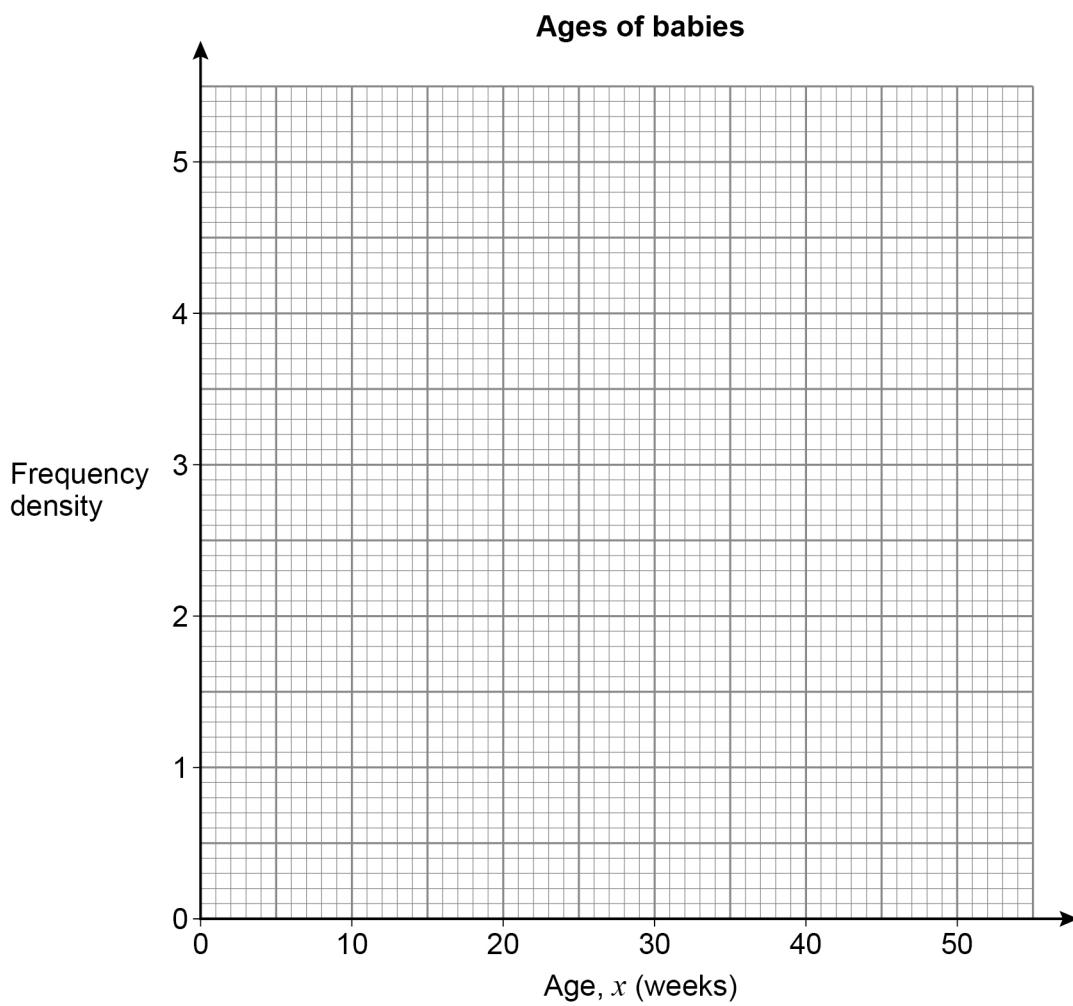
3   A company makes tubes of toothpaste.

The masses of 80 tubes are checked.

A histogram is drawn to represent the data.
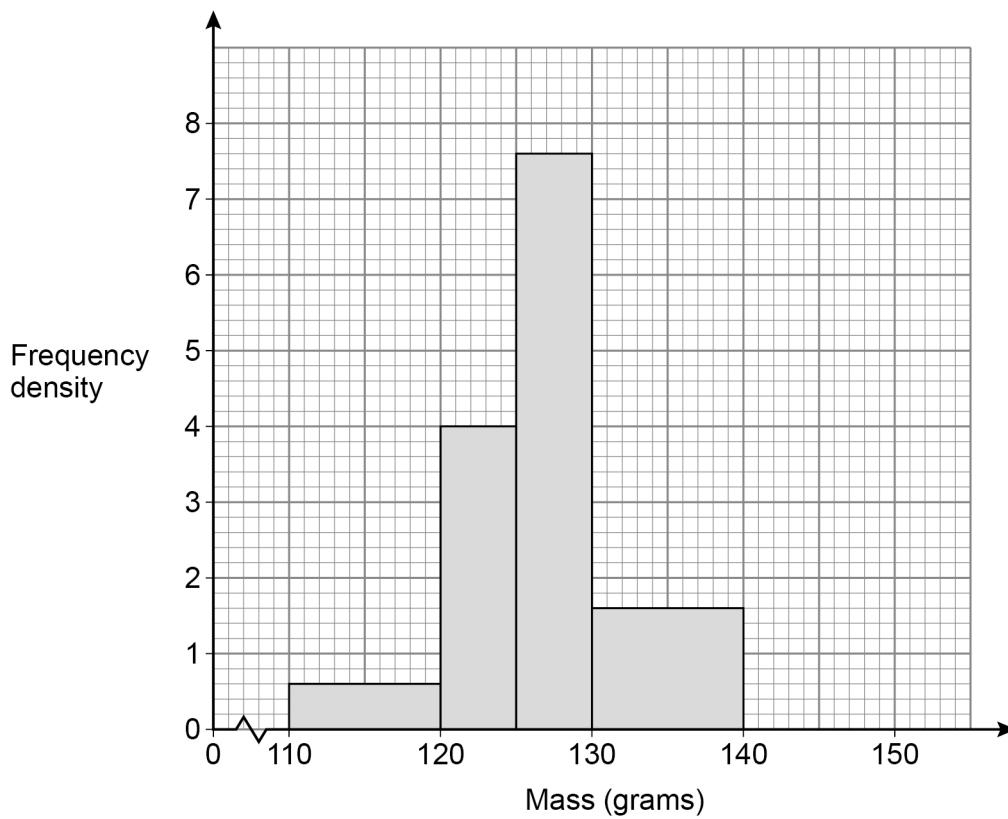
The company makes 28 000 tubes each day.

Estimate how many tubes each day have a mass **less than** 122 grams.

[4 marks]

Answer _____

4 180 runners **started** a marathon.

Some of the runners did not complete it.

4 (a) The histogram represents the times of the runners who did complete the marathon.
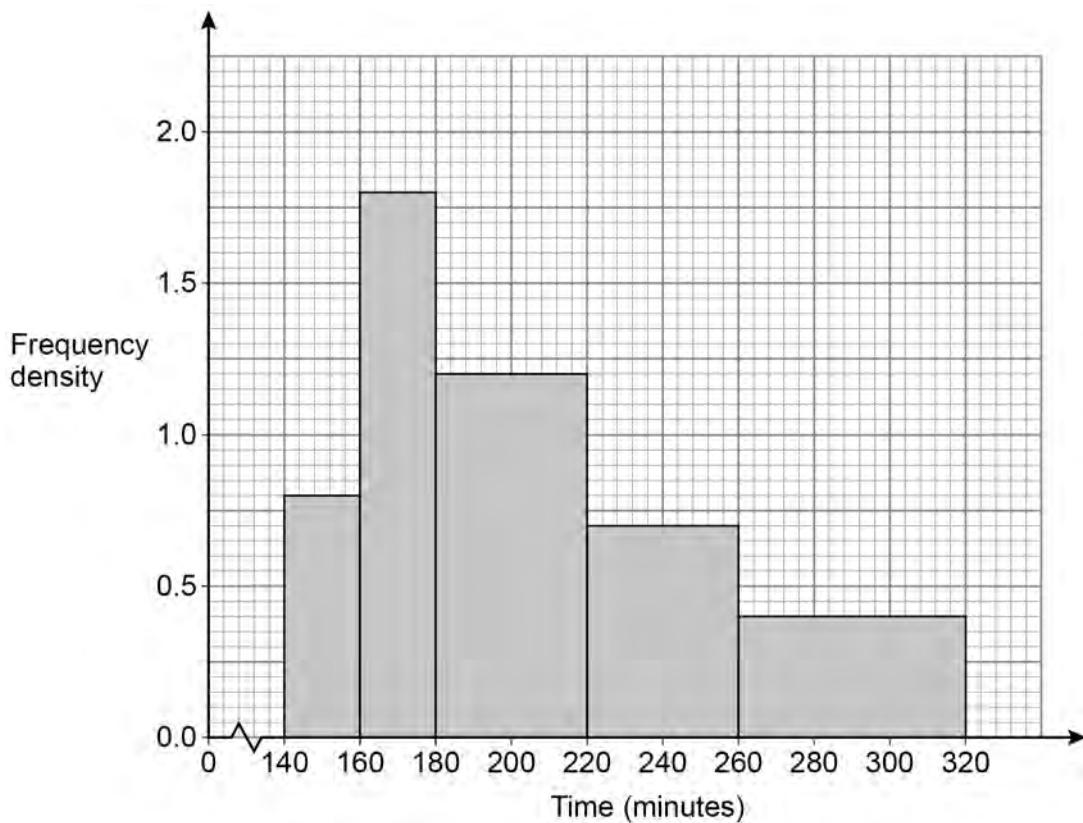
How many runners did **not** complete the marathon?

[3 marks]

Answer _____

5 61 students recorded how many hours they spent revising for a test.

The histogram represents the results.
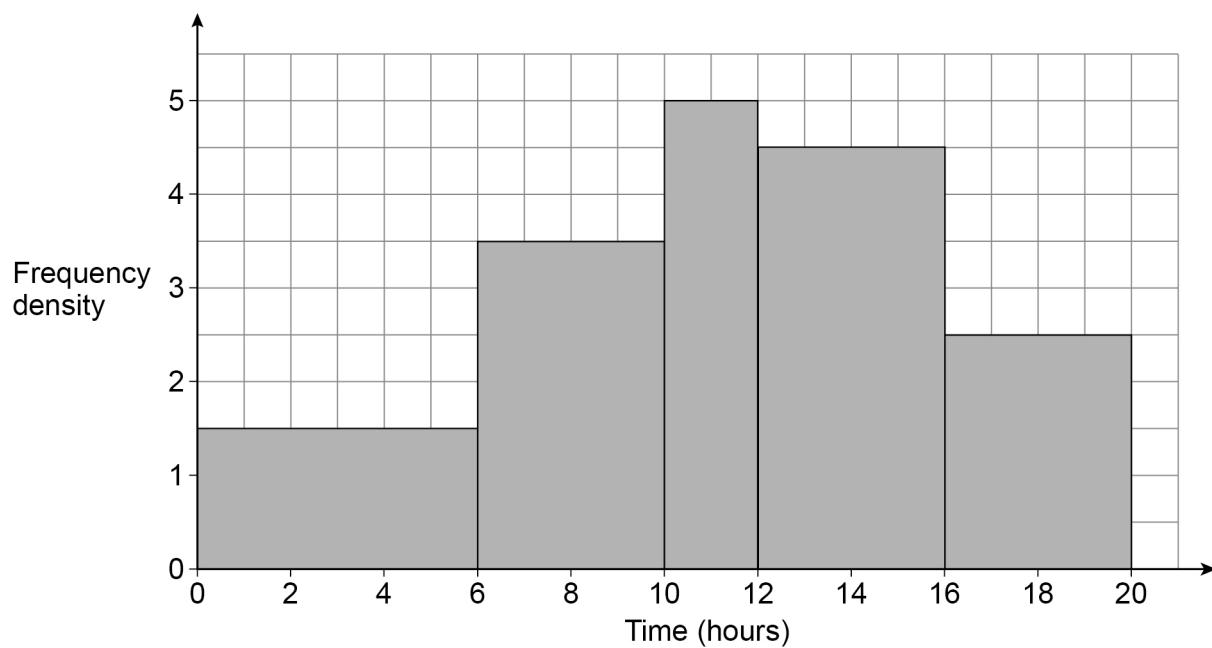
5 (a) Work out an estimate of the mean time the 61 students spent revising.

You may use the table to help you.

[4 marks]

Time, x (hours)	Frequency	Midpoint	
$0 \leqslant x < 6$			
$6 \leqslant x < 10$			
$10 \leqslant x < 12$			
$12 \leqslant x < 16$			
$16 \leqslant x < 20$			

Answer _____ hours