

15 The height of each of 140 basketball players is recorded.  
The table shows the results.

Height ( $h$ cm)	$160 < h \leq 180$	$180 < h \leq 185$	$185 < h \leq 190$	$190 < h \leq 200$	$200 < h \leq 210$
Frequency	7	12	31	70	20

(a) Calculate an estimate of the mean height.

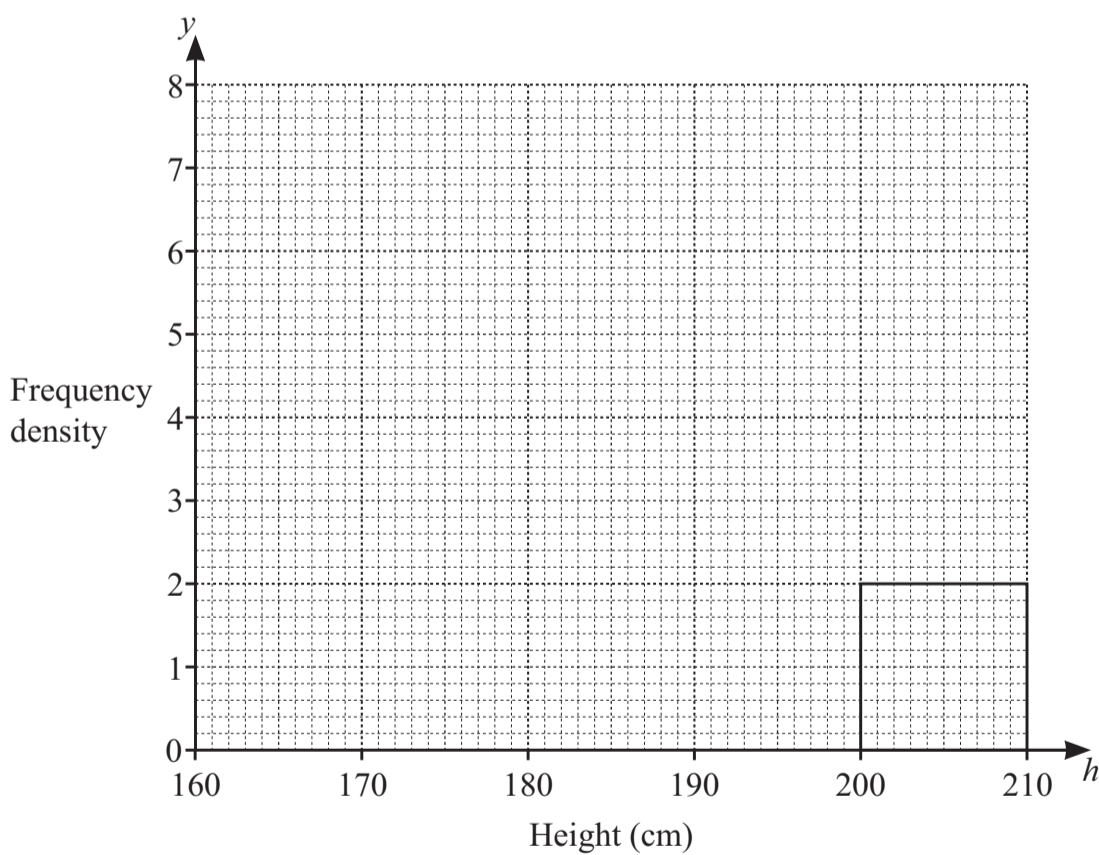
..... cm [4]

(b) Two of the players are chosen at random.

Find the probability that both players have a height greater than 190 cm and no more than 200 cm.

..... [2]

(c) Complete the histogram to show the information in the frequency table.



[3]

16 Mateo invests \$1250 at a rate of  $r\%$  per year compound interest.  
At the end of 6 years the total value of his investment is \$1484.

Calculate the value of  $r$ .

$r =$  ..... [3]