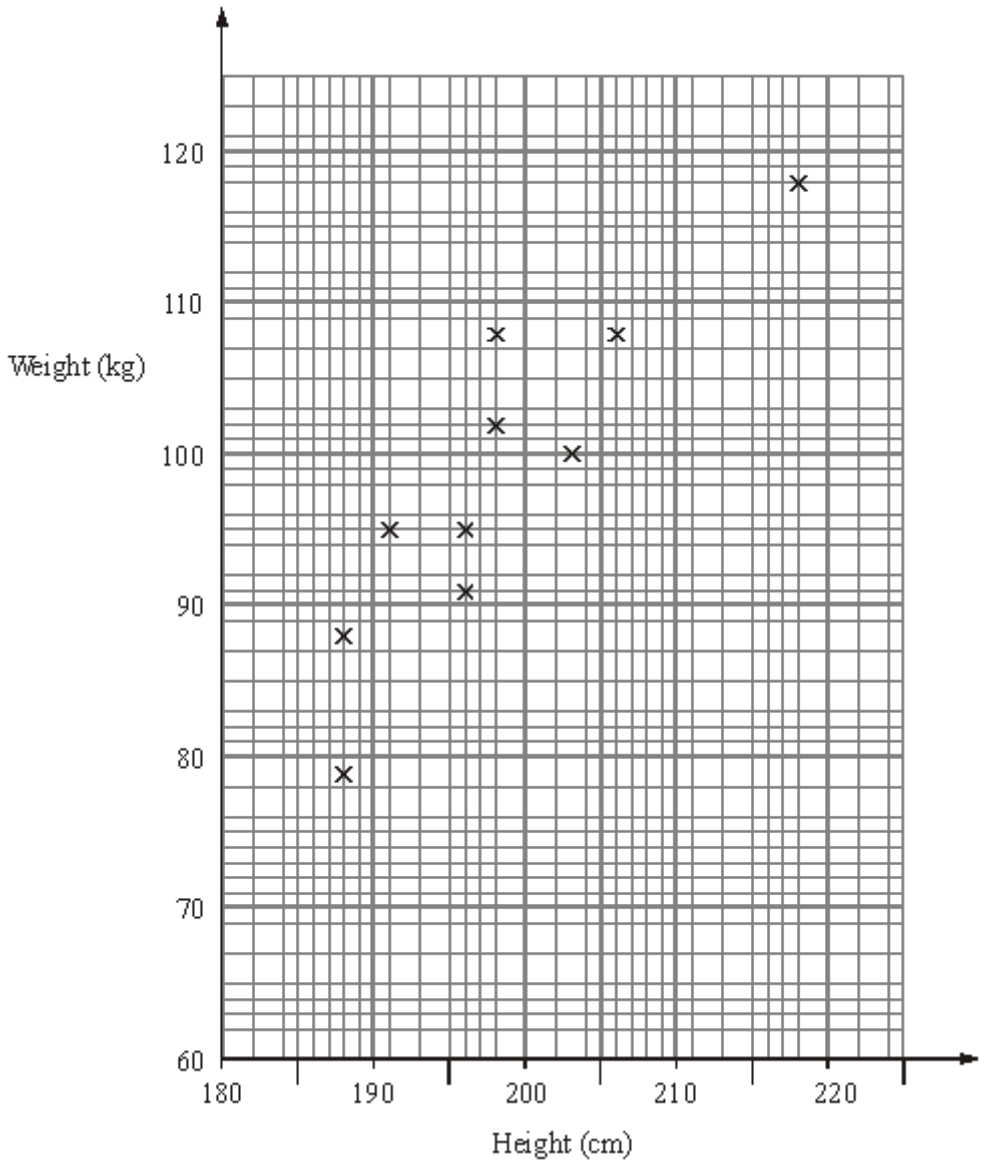
Q1. The scatter graph shows some information about a random sample of ten male players at a basketball club.

For each player it shows his height and his weight.



(a) (i) On the scatter graph, draw a line of best fit.

(1)

(ii) Work out the gradient of your line of best fit.

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(2)

(iii) Write down a practical interpretation of this gradient.

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.....

(2)

Some of the male players at the basketball club have a weight greater than 99 kg.

(b) Estimate the proportion of these players who have a height less than 200 cm.

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(2)
(Total 7 marks)

M1.

	Working	Answer	Mark	Additional Guidance
(a)(i)		Line of best fit	5	**B1** for line drawn between (190, 80), (190, 95) and (210, 105), (210, 120)
(ii)		1.25		**M1** for diff. *y* / diff. *x* **A1** for 0.5 — 2 or ft their line of best fit
(iii)		practical interpretation		**B2** for increase in kg per cm increase in height oe (B1 for a correct interpretation with only one or no units)
(b)		40%	2	**M1** for a horizontal line at 99 and a vertical line at 200 or 2 seen **A1** for 40% or 2/5 or 0.4 oe
				Total for Question: 7 marks

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