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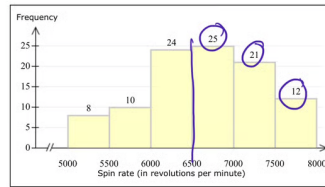
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Interpreting relative frequency histograms

A professional golfer is shopping for a new brand of golf ball. She likes most of the features of one particular brand, but she wants to make sure that the brand has a desirable spin rate (the rate at which the ball spins on its axis after being struck by a golf club). To test the spin rate of this new brand of ball, the golfer hits the brand of ball on 100 shots, and a computer measures the spin rate for each shot. The computer then produces the following histogram summarizing the 100 spin rates.



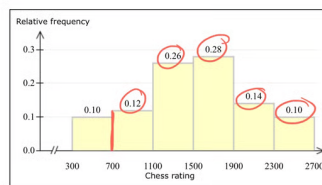
$$25 + 21 + 12 = \frac{58}{100}$$

Based on the histogram, find the proportion of spin rates in the sample that are greater than or equal to 6500 revolutions per minute. Write your answer as a decimal, and do not round your answer.



Interpreting relative frequency histograms

A recent study of 50 U.S. chess players details such things as the number of years the players have been active and the chess ratings of the players. (A chess rating is a number, with a higher number indicating greater expertise.) The chess rating data for the sample of 50 players are summarized in the following histogram.



Frequency = count them
Relative Frequency = percentage
 $0.12 + 0.26 + 0.28 + 0.14 + 0.10$

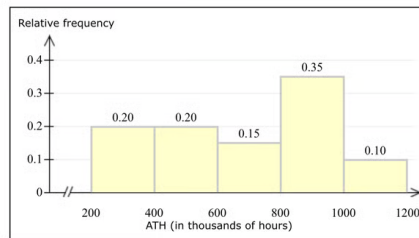
Based on the histogram, find the proportion of chess ratings in the sample that are greater than or equal to 700. Write your answer as a decimal, and do not round your answer.



Interpreting relative frequency histograms

? QUESTION

Accu-Rating has just released its webcast report for last month. The report details the aggregate tuning hours (ATHs) for the top 20 radio stations broadcast over the web. (The ATH for a station is the sum total of all hours that listeners tuned to the station.) The report displays the following histogram:



Lower class limit	Upper class limit	Relative Frequency = Percentage
200	399	0.20 = 20%
400	599	0.20 = 20%
600	799	0.15 = 15%
800	999	0.35 = 35%
1000	1199	0.10 = 10%

class width = upper class limit - lower class limit
(what's the graph/table counting by?)
 $400 - 200 = 200$ OR $200, 400, 600, \dots$
counting by 200

Based on the histogram, find the proportion of ATHs in the sample that are at least 600 thousand hours. Write your answer as a decimal, and do not round your answer.

$$0.15 + 0.35 + 0.10 = 0.60$$

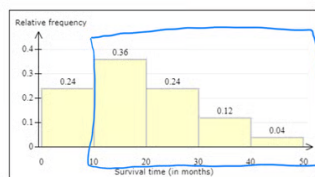
3:59 PM Wed Feb 12 inst-fs-lad-prod.inscloudgate.net

Mail - Kennon, Andrew - Outlook myPSCJ Capture PNG 1,232x668 pixels

DESCRIPTIVE STATISTICS Interpreting relative frequency histograms Jocelyn

Multiple myeloma is a form of cancer. For decades, there was no known treatment. Rather recently, though, doctors surmised that the drug Thalidomide, which was given to pregnant women in the 1950s but was subsequently found to cause birth defects, may extend the lives of those afflicted with multiple myeloma.

In an extensive clinical trial, 25 patients diagnosed as having multiple myeloma were treated with Thalidomide, and the subsequent number of months that each survived was recorded. Suppose that the following histogram summarizes the data from the sample:



$$.36 + .24 + .12 + .04 = .76$$

Based on the histogram, find the proportion of survival times in the sample that are greater than or equal to 10 months. Write your answer as a decimal, and do not round your answer.



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