18/2017	3. The access time of a cache memory is 100 ns and that of
Expert: AAATom	
Customer:	
Hello!	
I am working on this one now.	
Customer:	
Sorry it took so long, the kid woke up :)	
3,,	
Here is the answer:	
NATIONAL SERVICES AND ANALYSIS AND ASSESSED AS A SERVICE	
<ul> <li>a. What is the average access time of the system con Average access time for memory read in the system</li> </ul>	
7. Wordinger discuss time for memory read in the system	to calculated doing formula.
average_access_time_read = hit_ratio x cache_acce	ess_time + (1 - hit_ratio) x main_memory_access_time
so in this case: average_access_time_read = 0.9 x 100ns + (1 - 0.9	) v 1000nc = 00nc v 100nc = 100nc
average_access_unie_read = 0.9 x 100ms + (1 - 0.9	) X 1000113 - 90113 X 100113 - 190113
b. What is the average access time of the system for	
If we take in account both read and write accesses t	hen we have to sum averages for read and write.
Read average would take those 80% of overall requ	ests and the average read access time of 190ns we calculated in a) to get 0.8 x 190.
Write average would take those 20% of overall reque	ests and the main memory access time of 1000ns to get 0.2 x 1000ns.
Summed together we get: 0.8 x 190ns + 0.2 x 1000ns = 152ns + 200ns = 352ns.	
c. What is the hit ratio taking into consideration the v	write cycles?
To take into consideration write cycles means that we should discard write requests from the given overall hit ratio.	
So we have hit_ratio_read = read_requests_percent	tage x hit_ratio = 0.8 x 0.9 = 0.72
Again, if you need more explanation I am here for yo	ou.
Ask Varia Orine Camputan Handriana Origation	
Ask Your Own Computer Hardware Question	
Expert: AAATom	
·	stions (thank you and thank you for the honus for question 4) - is there something Loan
I can see that you have accepted the other two questions (thank you and thank you for the bonus for question 4) - is there something I can do more on this question?	
ao more on una question:	

(I have switched this out of chat so I can get an email notification that you posted a reply.)

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