* Required

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Please indicate which course you are taking. *
- CS61 (College)
- CSCIE-61 (Extension)

Caching: The Nitty Gritty

Pick the combination of words to complete the following sentence. *
A cache has some number of <Blank 1> each of which is occupied by a <Blank 2>
- bytes, item
- slots, demon
- slots, block
- entries, block
- pigeon holes, pigeon

All caches have the same block size. *
- True
- False

It is quite unfortunate that cache blocks are frequently much larger than the objects an application might request. *
- True
- False

It's quite important to have a clever replacement policy. *
- True
- False

A write-through cache risks losing data. *
- True
- False
Making a cache larger always reduces the number of misses a workload generates. *

☐ True
☒ False

For the following problems, assume that a cache hit takes 2 time units and a cache miss takes 16 time units *

What is the average access time (in time units) when your cache hit rate is 80%?

☐ 9 time units
☒ 4.8 time units
☐ 24 time units
☐ 2.2 time units

What is the hit rate if a workload generates 1024 hits and 50 misses? *

☐ 95.1 %
☒ 95.3 %
☐ 95.5 %
☐ 95.7 %

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