

| Problem   | Solution  | Answer  |
|---|---|---------|
| <p>1. A computer system has a memory hierarchy consisting of a cache and main memory. The cache has a hit rate of 90%. The main memory access time is 10 ns. The cache access time is 2 ns. What is the average memory access time?</p> | <p>Cache hit rate = 90%<br/>Main memory access time = 10 ns<br/>Cache access time = 2 ns</p> <p>Average memory access time = (Cache hit rate * Cache access time) + (Cache miss rate * Main memory access time)</p> <p>Average memory access time = (0.90 * 2 ns) + (0.10 * 10 ns)</p> <p>Average memory access time = 1.8 ns + 1.0 ns</p> <p>Average memory access time = 2.8 ns</p>   | 2.8 ns  |
| <p>2. A computer system has a memory hierarchy consisting of a cache and main memory. The cache has a hit rate of 80%. The main memory access time is 15 ns. The cache access time is 3 ns. What is the average memory access time?</p> | <p>Cache hit rate = 80%<br/>Main memory access time = 15 ns<br/>Cache access time = 3 ns</p> <p>Average memory access time = (Cache hit rate * Cache access time) + (Cache miss rate * Main memory access time)</p> <p>Average memory access time = (0.80 * 3 ns) + (0.20 * 15 ns)</p> <p>Average memory access time = 2.4 ns + 3.0 ns</p> <p>Average memory access time = 5.4 ns</p>   | 5.4 ns  |
| <p>3. A computer system has a memory hierarchy consisting of a cache and main memory. The cache has a hit rate of 70%. The main memory access time is 20 ns. The cache access time is 4 ns. What is the average memory access time?</p> | <p>Cache hit rate = 70%<br/>Main memory access time = 20 ns<br/>Cache access time = 4 ns</p> <p>Average memory access time = (Cache hit rate * Cache access time) + (Cache miss rate * Main memory access time)</p> <p>Average memory access time = (0.70 * 4 ns) + (0.30 * 20 ns)</p> <p>Average memory access time = 2.8 ns + 6.0 ns</p> <p>Average memory access time = 8.8 ns</p>   | 8.8 ns  |
| <p>4. A computer system has a memory hierarchy consisting of a cache and main memory. The cache has a hit rate of 60%. The main memory access time is 25 ns. The cache access time is 5 ns. What is the average memory access time?</p> | <p>Cache hit rate = 60%<br/>Main memory access time = 25 ns<br/>Cache access time = 5 ns</p> <p>Average memory access time = (Cache hit rate * Cache access time) + (Cache miss rate * Main memory access time)</p> <p>Average memory access time = (0.60 * 5 ns) + (0.40 * 25 ns)</p> <p>Average memory access time = 3.0 ns + 10.0 ns</p> <p>Average memory access time = 13.0 ns</p> | 13.0 ns |
| <p>5. A computer system has a memory hierarchy consisting of a cache and main memory. The cache has a hit rate of 50%. The main memory access time is 30 ns. The cache access time is 6 ns. What is the average memory access time?</p> | <p>Cache hit rate = 50%<br/>Main memory access time = 30 ns<br/>Cache access time = 6 ns</p> <p>Average memory access time = (Cache hit rate * Cache access time) + (Cache miss rate * Main memory access time)</p> <p>Average memory access time = (0.50 * 6 ns) + (0.50 * 30 ns)</p> <p>Average memory access time = 3.0 ns + 15.0 ns</p> <p>Average memory access time = 18.0 ns</p> | 18.0 ns |

# Vibrations And Waves Answers Study Guide

**John R. Gordon, Raymond A. Serway**



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