# Memory

1) What is the difference between main memory and backing storage?

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| Backing storage is slower to access than main memory but slower to access than main memory |

2) What does CPU stand for?

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| Central Processing Unit |

3) What do the following abbreviations stand for?

a) RAM

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| Random Access Memory |

b) ROM

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| Read Only Memory |

4) What happens to ROM when the power is disconnected?

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| The data is retained |

5) What happens to RAM when the power is disconnected?

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| The Data is lost |

6) If you were typing a letter would it be stored in RAM or ROM?

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| RAM |

7) How is the processor able to find an item of data stored in memory?

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| Every memory location has a unique hexadecimal address |

8) A program needs to be loaded automatically every time the computer is started up. Should the program be stored in RAM or ROM? Explain your answer.

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| The Program should be stored in ROM, as ROM will retain the data without needing power but RAM needs power to store data |