Computer Technology

**T**echnology **O**perations and **C**oncepts



Unit 4 Grade Sheet

***Buying, Maintaining and Troubleshooting a Computer***

***Part A = (S1 Obj 2-3 and Obj 3-2)***

***Part B = (S1 Obj 1-3)***

|  |  |  |  |
| --- | --- | --- | --- |
| **Completed** | **Assignments** | **Points** | **Earned** |
| **🞎** | Unit 4—Part A: Evaluating & Purchasing a Computer Study Guide | 50 |  |
| **🞎** | Unit 4—Buying a Computer Assignment  Saved as: lastname firstname buy  Submit to Dropbox | 20 |  |
| **🞎** | Unit 4—Part B: Maintaining & Troubleshooting Computer Systems Study Guide | 20 |  |
| **🞎** | Unit 4—Test Review Assignment  Save as: lastname firstname review  Submit to Dropbox | 35 |  |
|  | **TOTAL** | **125** |  |

**Test Review Games:**

Quia Test Review Game: <http://www.quia.com/cm/574799.html?AP_rand=1498265059>

Quizlet Flash Cards & Test Review Games: <http://quizlet.com/_7rofl>

**Technology Operations and Concepts**

**Unit 1 Examview Test:**

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 4—Part A: Evaluating and Purchasing a Computer**

**Study Guide**

1. Before buying a computer, take time to \_\_\_\_ .
2. If you need a computer for travel, you will want a \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ do not offer the full power of a laptop or desktop computer.
4. Define data. \_\_\_
5. Define information. \_\_\_\_
6. Give 3 examples of information.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. RAM stands for .
8. What does RAM do?
9. ROM stands for \_\_\_\_ .
10. What does ROM do? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. Most people purchase \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of RAM for a typical home computer and \_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_ for a gaming or video intense PC.
12. Processing means .
13. Processing takes place in the CPU.

What does CPU stand for?

1. Where is the CPU located?
2. Define motherboard.
3. Circuits are the .
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are small computer chips that contain millions of transistors and electronic components that control the flow of electrical current on the motherboard.
5. High-end motherboards will include features that make it easier to install

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for graph and video intense computer systems.

1. Processing speed is measured in .
2. The typical CPU today runs at \_\_\_\_\_ GHz or higher.
3. Pentium is a created by the company Intel.
4. Give 2 characteristics of a Celeron Processor:
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer the following questions while viewing the video on Slide #13.

1. A multi-core processor is where \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are put together on a single chip.
2. Increasing the amount of cores will allow for \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ to be performed at once; therefore increasing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the computer.
3. Take her quiz to find out what kind of processor you need at home. Answer the quiz questions below by circling A, B or C:
   1. How will you use your computer? A B C
   2. How will you use photos and video? A B C
   3. What kind of games will you play? A B C
4. List 3 tasks the Core i3 processor good for.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. List 3 tasks the Core i5 processor is good for.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. List 3 tasks that the top of the line Core i7 processors are good for.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. If you plan to use your computer for more than just web browsing, you should probably get at least a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ processor.
8. A multi-core processor is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that contains two or more central processing units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. The speed of the processor depends on how many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the processor has.
10. A dual core processor is like having \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ working at the same time.
11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have a major impact on computer performance.
12. Storage capacity is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
13. If you have the money to spend, include both \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
14. If your budget is tighter, choose .
15. Gamers usually choose to purchase a separate video card that plugs into the motherboard because

.

1. The biggest decision is choosing an .
2. Briefly discuss the pros and cons of choosing:
   1. Windows OS

* 1. Mac OS

* 1. Linux OS

1. What does bundled software mean?
2. What warranty does most computers come with?
3. Write a paragraph 3-5 sentences describing the 1/3/5 rule and why it is important to consider when purchasing a computer.

**Unit 4—Part B: Maintaining and Troubleshooting Computer Systems**

**Study Guide**

1. List the 3 ways to protect your computer
2. Briefly describe three safeguards you should consider in **protecting your computer against theft**:







1. Briefly describe things you can do to help in **protecting your computer against** **physical damage**.
   1. Improper Handling:
   2. Overheating:
   3. Humidity:
   4. Electrical Damage:
2. What is the #1 reason for data loss?
3. List 3 things you should do to protect against data loss?
4. Define troubleshooting:

1. When troubleshooting a computer problem, what should you check first?

1. Second, you should check the and finally,

.

1. What are 3 preventative maintenance steps you as a user can perform on your computer?
2. If you are uncertain how to upgrade your computer or perform maintenance tasks, you should .