

Name: _____

The Infrastructure of the Internet

Questions (Answer in complete sentences)

Comprehension

1. Define the bolded words using a dictionary or another source.
 - a. E-commerce
 - b. Infrastructure
 - c. Binary
 - d. terabytes
 - e. bandwidth
2. What does a network router do if the IP address that you are looking for is not within its network?
 - a. If the address you are looking for is not within its network it will send you up a level in the network until the address is contained in a sub-network.
3. How many and what length of undersea cable are there in the world?
 - a. There are over 400 undersea cables and they are over 1.2 million Km long.
4. What happens if one undersea cable breaks?
 - a. If one of the undersea cables breaks the internet will not be affected because the other cables will pick up the load.
5. Why do data centers require so much electricity?
 - a. Data centers require so much electricity because they are climate controlled and resistant to fire and natural disaster. There are also a lot of computers plugged in.
6. Does wireless internet require the undersea cables and data centers to work? Why?
 - a. Yes it does. Even if your connection is wireless, the cell tower still physically plugs into the network.

Inference

7. What would happen if all of the undersea cables broke?
 - a. If all of the undersea cables broke we would no longer be able to connect continents that were separated by water.
8. Why do you think that developing countries have developed more wireless technology?
 - a. Developing countries invest more in wireless technology because it is more convenient for people and they did not have

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- preexisting wired networks like developed countries did,
9. Work from your own knowledge or research to draw a map or flowchart of the steps that were necessary to complete the last thing you did on the internet.

