ICA: Team Trojan

REQUIREMENTS:

● FireFox Browser / Download here https://www.mozilla.org/en-US/firefox/windows/
  Size: 200 MB on Mac, 500 MB on Windows.

● Starter ZIP folder. This can be found on BlackBoard or GIThub.
  https://github.com/AndrewMar124/ICA_Trojan click *Code* then *Download Zip*

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1. Download FireFox and starter files.
2. Navigate to https://www.coolmathgames.com/
   a. How many ads are on the home page? _____
3. Play *Run 3* and reach level 6.
   a. How many times did your game glitch due to the ads reloading? ____
4. Right click on the page and press [inspect] or [f12]
   a. Navigate to the Network pane or press [ctrl+shift+e]
   b. Refresh the page and take note of the massive amounts of network traffic on this page.
   c. Click on three HTTP GET or POST methods. (They don't stop…) What domains is Cool Math making calls to?
      i. _____
      ii. _____
      iii. _____
5. One domain is "securepubads.g.doubleclick.net"
   a. Do a quick search of the domain.
   b. What is it and what does it do? (hint: click the top article by techwarn.com)
      i. _____
6. One way to prevent adware and ads in general would be to download an extension, but as we can see, not all extensions are safe. In this next section we will research and implement a local extension into our browser.
7. Navigate to and read through the *What are extensions?* Section.
   https://developer.mozilla.org/en-US/docs/Mozilla/Add-ons/WebExtensions/Your_first_WebExtension
8. Navigate to *Your first extension*
   a. **Note that we have provided the relevant JSON and JS files that will be run on your browser in the ZIP**
   b. Scroll down to the *Installing* section of the docs.
   c. Follow the instructions and try to implement the local extension into your firefox browser.
9. To see if you successfully got the extension running click on the *puzzle icon* in the top right of your browser, if the extension is running it should say: "Simple Ad Blocker."

10. Let's test it! Navigate back to https://www.coolmathgames.com/ and play Run 3.
   a. How many ads are on the home page? _____
11. Reopen the Inspect page, and click network.
   a. Click on three more HTTP calls on the network.
   b. What domain is the majority now? _____
12. Navigate to the *Console* pane.
   a. What is the first error? _____ (you may need to click *error* and scroll to the top)
13. Using all of the resources, the provided files, and all of your answers from this ICA; briefly describe what the extension is doing on the network level between the different domains that cool math is trying to connect to. If you made it this far and don't understand web architecture, phone a friend to explain or use AI as a tool to help further your understanding. (hint: look at the last question again [12])

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