Scenario 1: The data hoarder

I feel like I have a responsibility to provide a back-up service for the good of the wider world. I like to back up things like “Game of Thrones” S1-8 (I ***only*** back up 1080p bluray rips). This data is important to me, but it takes up a *lot* of space, and I don’t really have that much money to buy a lot of disks. I’m aware that there are many other people backing up these precious files, so I’m not *too* concerned if I lose some of the data, since I can always get a copy to back up again later.

Which RAID level would be most appropriate for my workload?

Scenario 2: The gamer

Speed is of utmost importance to me. I’ve bought the fastest disks that money can buy, but they’re *just not fast enough*. If my friends ever saw that I was running at less than 120fps, I would be exiled and embarrassed. I know that lots of space is good, but I don’t *need* a lot of space, since I only play one game at a time, and I can always just re-install from Steam.

Which RAID level would be most appropriate for my workload?

Scenario 3: The scientist

I actually have several different needs: I need my results to be calculated quickly, I need to be confident that the results on disk are accurate, and I need to be able to have access to lots of temporary space while the calculations are running.. I also need to be able to store my data on disk long-term, in case anyone ever questions the results that I publish in a journal. I need to know that the data being stored long-term is accurate and does not change over time.

Which RAID level(s) would be most appropriate for my workload?