

Mr Mac's iPhone



Mr Mac's battery life starts at 64 hours. It doubles every time it recharges.

Work out how many charges it takes to reach the maximum life of 1024 hours.

Work out a different battery life that would get to 1024 hours in the same number of charges.

What is the *doubling number* of Mr Mac's phone? _____

If the doubling number was 7, what could the original battery life be? Find two different answers.

If the phone has a full charge and is left turned on, it will last for 1024 hours. How many days is that?

If the phone is used to play music constantly, it will last for 64 hours. How many days is that?

Mr Mac turns his phone off for eight hours each day when he sleeps, then plays music on it while he's awake. How long will the battery last?
