**Home technology audit**

1. Go around your home and make a list of every piece of technology you see, keeping in mind that some of it may not be obvious - clothes and shelter, for instance! Take a look at other people’s lists on the *Home technology audit forum* and see if you can make a longer one. Add each item to the table below.

|  |  |
| --- | --- |
| **Technology** | **Digital** |
|  |  |

1. Use the column above to note whether each piece of technology is digital or not. If it’s digital, it processes information, like your phone or television, and you can usually interact with it.
2. Add a row at the bottom of the table for the total number of technologies in your home, and the total number of digital technologies.
3. Calculate a fraction representing the proportion of the total number of technologies that are digital.
4. Simplify the fraction if possible.
5. Convert the fraction into a percentage representing the proportion of list items that are digital.
6. Add the percentage to a new row at the bottom of the table, and write ‘100%’ in the ‘Technology’ column.
7. Post your table on the *Home technology audit forum*.
8. Add a new column to the table above, titled ‘Cost’.
9. Add the cost to replace each piece of digital technology in your home, should it break down.
10. Calculate the total cost to replace each piece of digital technology, and add it to the last row.
11. Calculate an irreducible fraction representing your monthly personal income as a proportion of the total cost to replace each piece of digital technology, and write it here:
12. Convert the fraction to a percentage, and write it here:
13. Use the above figures to calculate how many months (rounded to the nearest whole number) you would have to save to replace all of the digital technology in your home, if it were to break down. Show your working below: