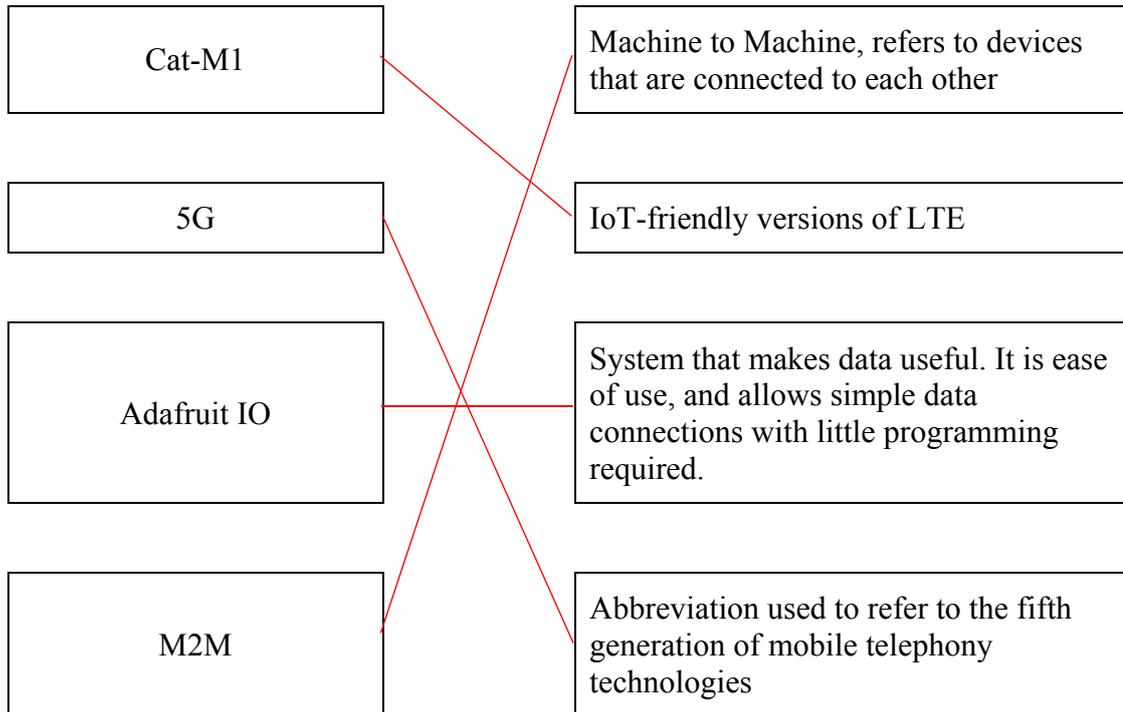


1. Assign the terms from the left column to the corresponding definitions on the right.



2. List three basic parameters that characterize IPv6 (Internet protocol version 6)

1. IPv6 uses a 128-bit address format
2. More efficient routing
3. Easier administration

3. Correct the text so that the following statement is true

IPv6 addresses are represented as (~~four~~ **eight**) groups of (~~four~~ **two**) hexadecimal digits.

IoT devices in (~~outdoor~~ **indoor**) installations commonly use Wi-Fi and Bluetooth.

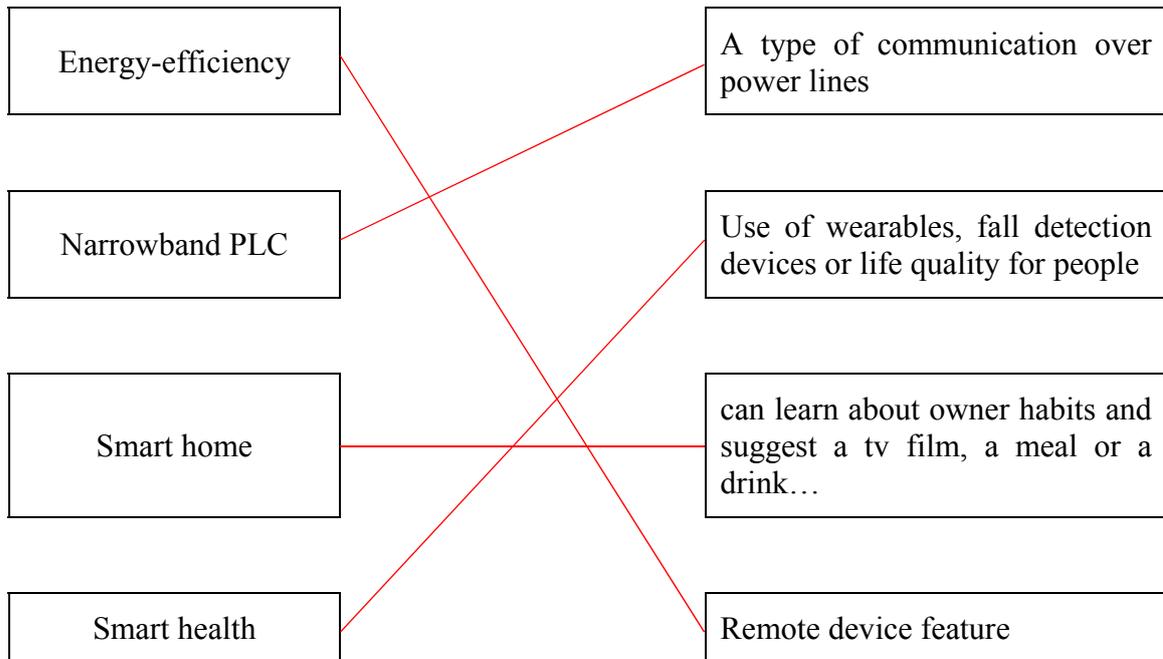
Wi-Fi power consumption is much (~~lower~~ **higher**) than Bluetooth.

The 5G technology will work in the bands of (~~1.6 and 35 GHz~~ **3.6 and 26 GHz**) in 2020 at the European Community.



IoT enabled devices will operate at low powers with battery life of up to (~~four~~^{ten}) years in some applications.

4. Assign the terms from the left column to the corresponding definitions on the right.



5. List a minimum of 4 basic applications and its description in the field of smart cities.

1. **Structural health:** Monitoring of vibrations and material conditions in buildings, bridges and historical monuments
2. **Traffic congestion:** Monitoring of vehicles and pedestrians levels to optimize driving and walking routes
3. **Smart lighting:** Intelligent and weather adaptive lighting in streets lights
4. **Potable water monitoring:** Monitoring of the quality of tap water in cities

6. Correct the text so that the following statements are true.

Commercial IoT devices use (~~either ZigBee or Bluetooth~~) to communicate with others.
~~an IP network~~

A smart grid (~~combines sources of fossil energy with laptops and smartphones in~~) the
~~electricity network to have a smart energy management.~~
~~integrates the information and communication technologies to~~

Smart farming provides the farmer with opportunities for (~~combines sources of fossil~~) and
~~better decision-making~~
(~~more efficient management~~)
~~better decision-making~~)