

1. Put the following words into two columns according to whether they are challenges or enabling technologies: Sensors, Integration, Management, Manufacturing, Standards, Energy, Reliability, and Security.

Challenge

Enabling Technology

Management

Sensors

Manufacturing

Integration

Reliability

Standards

Security

Energy

2. Modify the following texts so that the statement is true.

Miniaturized sensors have new capabilities (~~a great difficulty~~ **and better processing performance** ~~but reduced efficiency~~).

Open standards are (~~a great difficulty~~ **key enablers**) for the success of wireless communications.

3. Here is a series of terms related to IoT. Match each term on the left column to the corresponding definition on the right column.

Exaflood	Ability of a system or a product to work with other systems or products without any restricted access or implementation
Interoperability	Set of documented requirements, specifications, guidelines or characteristics that can be used consistently to ensure that materials, devices, products, processes and services are fit for their purpose.
Cloud computing	Torrent of data collected and exchanged the Internet will have to handle in the very near future
Standard	Model for enabling ubiquitous, convenient, on-demand access to a shared pool of configurable computing resources



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4. Name at least three basic enabling technologies for the future of IoT.

1. **Sensors**
2. **Energy**
3. **Communication**

5. Are the following statements true or false?

True / False		We have enough data storage facilities for the Internet of Things
True / False		One open problem in IoT security that has not been considered in the standards is the distribution of the keys amongst devices
True / False		Integration of smart devices into the products themselves will not provide significant cost savings

6. List four basic enabling trends in sensor technology.

1. **Exaflood**
2. **The device or system will have to harvest its own energy**
3. **Miniaturization of devices/sensors**
4. **Autonomic resources (systems with self-* properties)**

7. Match a problem shown on the left column to the corresponding solution on the right column.