**Listening Exercise 174**

Technology

USA Spanish accent

Guidelines:

1. Review the questions.
2. Listen to the audio twice (click the icon). (If link does not work from email, save to computer and then open).
3. Answer the questions. If unable to answer from the audio, refer to the transcript.
4. Consult the transcript, vocabulary, translation and answers to confirm correct responses and gauge understanding.



**Questions**

1. Which best describes the main topic?
   1. Computer Science
   2. Industrial revolution
   3. University research
   4. Laser technology
2. This development has the potential to:
   1. Challenge convention
   2. Increase imagination
   3. Meet expectations
   4. Revolutionize industry
3. Reference to the Holy Grail is a metaphor for:
   1. Nonexistent myth
   2. Ultimate achievement
   3. Unattainable goal
   4. Viable truth
4. Which is the innovative component?
   1. Laser
   2. Microchip
   3. Scale
   4. Voltage
5. The speaker states this development could revolutionize which three fields of endeavor?
   1. Commerce, industry, art
   2. Industry, science and commerce
   3. Music, philosophy, politics
   4. Science, technology, military
6. Which best describes the projected date when the full size version will be complete?
   1. Not known
   2. Two years
   3. Very late
   4. World-cup football

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| Los primeros prototipos de computadoras cuánticas llenan este laboratorio en la Universidad de Sussex. Los científicos aquí, liderados por el profesor Winfried Hensinger, han ayudado escribir el primer plan práctico para construir una versión a gran escala. | The first prototypes of quantum computers fill this laboratory at the University of Sussex. The scientists here, led by Professor Winfried Hensinger, have helped write the first practical plan to build a large-scale version. |
| *“Los ordenadores cuánticos realmente permiten una gama completamente nueva de posibles aplicaciones. Usted puede pensar en la computadora cuántica como una revolución de la industria, similar a las convencionales. Abrirá a todo un nuevo mundo de oportunidades que jamás se habrían podido imaginar.”* | *"Quantum computers really allow for a whole new range of possible applications. You can think of the quantum computer as an industry revolution, similar to conventional ones. It will open up a whole new world of opportunities that could never have been imagined."* |
| Las computadoras cuánticas son el Cáliz sagrado para los informáticos, pero encontrar un método viable para crear uno ha resultado difícil de alcanzar. | Quantum computers are the sacred Chalice for computer scientists but finding a viable method for creating one has proved elusive. |
| “Tradicionalmente la gente sentía que sería increíblemente difícil construir una computadora cuántica y eso es porque realmente tiene que habilitar estos muy extraños efectos cuánticos a una escala enorme. Tradicionalmente la gente usó rayos láser para ejecutar puertas cuánticas. Lo que hemos hecho aquí en la universidad de Sussex es inventar un nuevo método donde se puede reemplazar todos estos pares de rayos láser con voltajes aplicados a un microchip cuántico.” | "Traditionally people felt that it would be incredibly difficult to build a quantum computer and that's because you really have to enable these very strange quantum effects on a huge scale. Traditionally people used laser beams to run quantum gates. What we have done here at Sussex University is to invent a new method where you can replace all these pairs of lasers with voltages applied to a quantum microchip." |
| Tal computadora sería la más poderosa en la tierra. Capaz de revolucionar la industria, la ciencia y el comercio. El equipo tardará dos años en construir un pequeño prototipo y, si es exitosa, una versión escalonada potencialmente llenaría un edificio de la anchura y la longitud de un campo de fútbol. | Such a computer would be the most powerful on earth. Capable of revolutionizing industry, science and commerce. The team will take two years to build a small prototype and, if successful, a stepped up version would potentially fill a building the width and length of a football field. |

**Vocabulary**

Cuántica quantum

Ordenador computer

gama range

Cáliz sagrado Holy Chalice (Grail)

informáticos computer scientists

habilitar to enable

pares pairs

exitosa successful

escalonada stepped up, scaled up