

BEFORE READING / LISTENING

TRUE / FALSE

Read the headline. Guess if a-h below are true (T) or false (F).

1. Scientists in China created temperatures of 70 million° C. T / F
2. The artificial sun project in China is called FAST. T / F
3. The cost of the project is already over \$1 trillion. T / F
4. Scientists have been working on nuclear fusion for decades. T / F
5. The artificial sun project needs fossil fuels to work well. T / F
6. Nuclear fusion could mean we will pay less for fuel. T / F
7. A researcher said the artificial sun was an important step forward. T / F

Listening — Listen and fill in the gaps

China (1) _____ for the highest heat ever recorded. Scientists created a 70,000,000°C "artificial sun". The record was (2) _____ heat at a temperature five times hotter than the sun for more than 17 minutes. The heat (3) _____ a nuclear fusion reactor. The reactor is part of (4) _____ EAST. It reproduces the reactions that happen inside our sun. The scientists are developing the artificial (5) _____ a near-endless supply of clean energy. The EAST project has cost more than \$950 billion. That will be over \$1 trillion (6) _____.

Scientists have (7) _____ to develop nuclear fusion. It is the best way to produce clean energy. The process needs (8) _____ and leaves no dangerous waste. If scientists can make it work, the world will be (9) _____. It could also mean lower fuel bills. Nuclear fusion technology is still (10) _____ to be a global industry. However, a nuclear (11) _____ the EAST project is an important step. He said: "The recent operation lays a solid scientific and experimental foundation towards the (12) _____ fusion reactor."

was created in a - a project called -set a record - greener and cleaner. -fusion expert says
-for keeping the - not advanced enough - tried for decades - no fossil fuels and -
running of a

2. SYNONYM MATCH: (The words in bold are from the news article.)

- | | |
|----------------|----------------|
| 1. set | a. create |
| 2. keeping | b. established |
| 3. extreme | c. base |
| 4. reproduces | d. limitless |
| 5. endless | e. great |
| 6. develop | f. specialist |
| 7. way | g. maintaining |
| 8. lower | h. method |
| 9. expert | i. copies |
| 10. foundation | j. reduce |

VOCABULARY MATCHING

- a. Created the best of something (a record) for others to try and beat or better.
- b. A special place where a nuclear reaction takes place.
- c. How hot or cold someone or something is.
- d. Very great; reaching a high or the highest degree.
- e. Made by people, not nature.
- f. The quality of being hot.
- g. Make something that is needed or wanted available to someone.

- 1. Set _____
- 2. Temperature _____
- 3. Artificial _____
- 4. Heat _____
- 5. Extreme _____
- 6. Reactor _____
- 7. Supply _____