

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 _____