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Level 5 – 13th April, 2019

Astronomers release first ever photo of black hole

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<https://breakingnewsenglish.com/1904/190413-black-hole-5.html>

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Please try Levels 4 and 6. They are (a little) harder.

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THE READING

From <https://breakingnewsenglish.com/1904/190413-black-hole-5.html>

Astronomers have taken the first ever image of a black hole. It is in a distant galaxy called M87, 500 million trillion km from Earth. That number is a five followed by twenty zeroes. Scientists say the black hole has a diameter of 40 billion km and is three million times larger than Earth. The lead astronomer said: "What we see is larger than the size of our entire Solar System. It has a mass 6.5 billion times that of the Sun....It is an absolute monster - the heavyweight champion of black holes in the Universe." He added that it was one of the heaviest black holes in space.

The image was captured by a network of eight telescopes called the Event Horizon Telescope (EHT). No single telescope is powerful enough to record the image. The EHT telescopes are located on volcanoes in Hawaii and Mexico, mountains in the USA and Spain, a desert in Chile, and in Antarctica. A team of 200 scientists used the telescopes to scan the M87 galaxy over 10 days. The data was stored on hundreds of hard drives and processed to produce the image. It is now a landmark in space exploration. A professor called it "an extraordinary scientific feat".

Sources: <https://www.bbc.com/news/science-environment-47873592>
<https://www.sciencenews.org/article/black-hole-first-picture-event-horizon-telescope>
<https://edition.cnn.com/2019/04/10/world/black-hole-photo-scn/index.html>

PHRASE MATCHING

From <https://breakingnewsenglish.com/1904/190413-black-hole-5.html>

PARAGRAPH ONE:

- | | |
|---------------------------------------|-------------------------|
| 1. It is in a distant | a. absolute monster |
| 2. a five followed | b. Solar System |
| 3. a diameter | c. heaviest black holes |
| 4. larger than the size of our entire | d. of 40 billion km |
| 5. It has a mass 6.5 billion times | e. by twenty zeroes |
| 6. It is an | f. champion |
| 7. the heavyweight | g. galaxy called M87 |
| 8. it was one of the | h. that of the Sun |

PARAGRAPH TWO:

- | | |
|--------------------------------|------------------------|
| 1. a network | a. powerful enough |
| 2. No single telescope is | b. exploration |
| 3. telescopes are located | c. over 10 days |
| 4. a desert | d. feat |
| 5. scan the M87 galaxy | e. on volcanoes |
| 6. stored on hundreds of | f. of eight telescopes |
| 7. a landmark in space | g. in Chile |
| 8. an extraordinary scientific | h. hard drives |

LISTEN AND FILL IN THE GAPS

From <https://breakingnewsenglish.com/1904/190413-black-hole-5.html>

Astronomers have taken the (1) _____ of a black hole. It is in a distant galaxy called M87, (2) _____ km from Earth. That number is a (3) _____ twenty zeroes. Scientists say the black hole has a diameter of 40 billion km and is three million times larger than Earth. The lead astronomer said: "What we see is larger than the size (4) _____ Solar System. It has a mass 6.5 billion times that of the Sun....It is (5) _____ - the heavyweight champion of black holes in the Universe." He added that it was one (6) _____ black holes in space.

The image was (7) _____ network of eight telescopes called the Event Horizon Telescope (EHT). No single telescope (8) _____ to record the image. The EHT telescopes are located on volcanoes in Hawaii and Mexico, mountains in the USA and Spain, (9) _____ Chile, and in Antarctica. A team of 200 scientists used the telescopes to scan the M87 (10) _____ days. The data was stored (11) _____ hard drives and processed to produce the image. It is now (12) _____ space exploration. A professor called it "an extraordinary scientific feat".

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1904/190413-black-hole-5.html>

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BLACK HOLES SURVEY

From <https://breakingnewsenglish.com/1904/190413-black-hole-4.html>

Write five GOOD questions about black holes in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student A: Do not show these to your speaking partner(s).

a) _____

b) _____

c) _____

d) _____

e) _____

f) _____

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WRITE QUESTIONS & ASK YOUR PARTNER(S)

Student B: Do not show these to your speaking partner(s).

a) _____

b) _____

c) _____

d) _____

e) _____

f) _____

