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Level 4 – 13th April, 2019

Astronomers release first ever photo of black hole

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

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Please try Levels 5 and 6. They are (a little) harder.

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THE READING

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

Astronomers took the first ever image of a black hole. It is in a distant galaxy 500 million trillion km away. That is a five followed by twenty zeroes. The black hole is 40 billion km across and is three million times bigger than Earth. An astronomer said it was larger than our solar system. It is 6.5 billion times bigger than the Sun. He called it, "an absolute monster" and "the heavyweight champion of black holes in the Universe".

A network of eight telescopes captured the image. No single telescope is powerful enough to do this. The telescopes are located on volcanoes, mountains and deserts around the world. One is in Antarctica. A team of 200 scientists used the telescopes to scan the galaxy over 10 days. The data was stored on hundreds of hard drives. The image 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-4.html>

PARAGRAPH ONE:

- | | |
|------------------------------------|------------------------|
| 1. It is in a distant | a. bigger than the Sun |
| 2. a five followed | b. across |
| 3. The black hole is 40 billion km | c. by twenty zeroes |
| 4. three million times bigger than | d. champion |
| 5. larger than our solar | e. Earth |
| 6. It is 6.5 billion times | f. galaxy |
| 7. an absolute | g. system |
| 8. the heavyweight | h. monster |

PARAGRAPH TWO:

- | | |
|--------------------------------|--------------------|
| 1. No single telescope is | a. of hard drives |
| 2. The telescopes are located | b. 200 scientists |
| 3. mountains and | c. feat |
| 4. A team of | d. on volcanoes |
| 5. used the telescopes to | e. deserts |
| 6. stored on hundreds | f. exploration |
| 7. a landmark in space | g. powerful enough |
| 8. an extraordinary scientific | h. scan the galaxy |

LISTEN AND FILL IN THE GAPS

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

Astronomers (1) _____ ever image of a black hole. It is in a distant galaxy 500 million trillion km away. That is (2) _____ by twenty zeroes. The black hole is 40 billion km (3) _____ three million times bigger than Earth. An astronomer said it was larger than (4) _____. It is 6.5 billion times bigger than the Sun. He called it, "(5) _____" and "the heavyweight champion of black holes (6) _____".

A network of eight telescopes (7) _____. No single telescope is (8) _____ do this. The telescopes are located on volcanoes, mountains (9) _____ the world. One is in Antarctica. A team of 200 scientists used the (10) _____ the galaxy over 10 days. The (11) _____ on hundreds of hard drives. The image is (12) _____ in space exploration. A professor called it "an extraordinary scientific feat".

PUT A SLASH (/) WHERE THE SPACES ARE

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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) _____

WRITING

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

Write about **black holes** for 10 minutes. Read and talk about your partner's paper.
