



Some Questions for Fun – Question 1

From all we know now, what is the fastest possible speed in the Universe?

- A). 1 m/s
- B). speed of light (3.00×10^8 m/s)**
- C). There is no limit
- D). Approximately 10^{100} m/s
- E). Scientists are not sure



Question 2

What can we say about the force of gravity acting on an astronaut on the International Space Station?

- A). It is about 10% weaker than the force of gravity on the surface of the Earth.**
- B). It is zero.
- C). It is about 100 times weaker than the force of gravity on the Earth.
- D). It is about 10 times stronger than on the surface of the Earth
- E). Outside of the Earth's atmosphere it does not make sense to talk about gravity.



Question 3

What is scientist's best guess of the age of the Universe?

A). 1000 years

B). 3×10^8 years

C). 13.7 billion years

D). 10^{500} years

E). Scientists are not sure



Question 4

What is the size of the smallest object we can “see” with an electron microscope?

- A). 1 m (approximate height of a 5th grader)
- B). 10^{-6} m (size of objects in a cell)
- C). 10^{-9} m (size of individual atoms)**
- D). 10^{-14} m (size of atomic nuclei)
- E). 10^{-35} m (theoretical size of fundamental strings)