

1. Переведите предложения на русский язык.

1. Can your brother help me with mathematics?
2. Her grandmother can knit very well.
3. Could you come to my place next Friday — I'm sorry. I can't.
4. The train was to leave at 5 am.
5. She was to wear that dress at the graduation party.
6. He was allowed to borrow his father's car last Friday.
7. I don't know why we hurried.
8. We needn't have hurried.
9. She cannot buy bread.
10. She need not buy bread.
11. She could not cook such a big dinner.
12. She need not have cooked such a big dinner.
13. I had to decide what to do.
14. They had to call the doctor because the grandmother was ill.

2. Выберите в скобках правильный вариант модального глагола.

1. We (could/couldn't) sleep last night because of the storm.
2. Sam (must/had to) leave the party early because his wife disappeared.
3. If you train more you (could/will be able to) run faster.
4. I was (ought to/able to) buy a dishwasher with my credit card.
5. You (ought/can) to apologize.
6. We (needn't/mustn't) book a room in advance. They always have some vacant rooms.
7. When they were rich they were (able to/allowed to) travel abroad every month.
8. I (can't/could not) solve the problem, but he explained it to me.

1. Употребите оборот *there+ to be* в нужной форме.

Пример: _____ a girl called Andrea in my class. - There is a girl called Andrea in my class.

1. _____ a party at 9 o'clock tomorrow.
2. _____ many CDs in the box.
3. _____ a lamp near the bed.
4. _____ three pencils in the pencil case.
5. _____ many oranges in the tree last August.
6. _____ some milk in the cup.
7. _____ some fantastic beaches at the Costa del Sol.
8. _____ a lot of English books in the room.
9. _____ many animals in the Zoo?
10. _____ many windows in the room?
11. _____ a bank near here?
12. _____ a cat on the roof?
13. _____ any public buses in Los Angeles?
14. _____ (not) many tigers left in the world.
15. _____ (not) a dog in the garden.

2. Напишите 5 предложений о вашем городе по образцу, употребляя оборот *there+to be*.

Пример:

There was a cafe behind the supermarket *last year*. Now there is a museum there.

There is a cinema and a sports centre to the right of the park.

Five years ago there were two shops in Central Square. *Next year* there will be two cafes, a theatre and a cinema.

3. Переведите предложения, подбирая наиболее подходящие усилительные слова.

Пример:

It was not until Reontgen discovered X-rays *that* scientists began to take interest in this subject.

Только тогда, когда Рентген открыл *X-лучи*, ученые начали интересоваться этим вопросом.

1. It is just energy which the atom thus yields up that is held to account for the radiation.
2. It is the rainy weather that makes me depressed.
3. It was not until May that we received a letter from them.
4. It is the unexpected that always happens.
5. It is precisely this method that he followed.
6. It was not only this value that counted.
7. Lapworth expressed the view that it is electrolytic dissociation that the majority of changes in organic compounds may be most probably assigned to.
8. It is due to the close cooperation of physicists and chemists that new physical measurements were developed.

Прочитайте и переведите текст. Выполните задания к тексту.

Ivan Polzunov and the first steam engine in Russia

Ivan Ivanovich Polzunov (1728 – May 27, 1766) was a Russian inventor. He created the first steam engine in Russia and the first two-cylinder engine in the world.

Ivan Polzunov was born in the family of a soldier of peasant origin in the town Turinsk (currently Sverdlovsk Oblast region, Russia). After graduating in 1742 from *Mining school* in Ekaterinburg he worked as a *mechanic's apprentice*

for the Chief Mechanic of Ural Plants *Nikolay Bakharev*. Beginning in 1748 he worked in Barnaul.

In the library of Barnaul plant he found works of Mikhail Lomonosov, that he studied by himself as well as the descriptions of contemporary steam machines by *I. Shlatter*. In 1763 he proposed an original 1.8 h.p. (1.2kW) steam machine. The design used two cylinders on the same shaft that allowed its operations completely independently from water power even on dry places or in mountains. This design was a great step forward from contemporary steam machines that used hydropower to return the pistons and so could not be used if the hydropower was not available.

The project was sent to Empress Catherine II. She awarded him 400 rubles and promotion two ranks (to captain-poruchik) but did not seem to appreciate the new technology, as she recommended hydropower be used to return the pistons *as done in Britain*.

In 1765 Polzunov designed a large 32 h.p. steam machine for air pumps for steel furnaces. The director of Barnaul plants general Porshin agreed to use Polzunov's two-cylinder design as Barnaul steel mills were in a very dry area and in summer they often did not have any hydropower at all.

The machine was assembled in the winter and spring of 1766; the machine hall had very thin walls and a lot of draughts. Ivan Polzunov's tuberculosis became much worse, he coughed blood but still worked. He died on May 27, 1766 at the age of 37, three days before the machine was finished. The machine worked three months, then was disassembled and replaced by convenient hydropower, despite paying off its costs in those three months. A working model of the steam machine made by Ivan Polzunov is in the museum of Barnaul and it still works.

I. Определите, верны или неверны данные утверждения. Неправильные исправьте.

- 1) Ivan Polzunov created a first steam engine in Russia.
- 2) Polzunov invented the first three-cylinder engine in the world.
- 3) After graduating in 1742 from Mining school he worked as a chief Mechanic of Ural Plants.

- 4) Beginning in 1748 he worked in Ekaterinburg.
- 5) The power of his steam engine was 1.8 h.p.
- 6) Polzunov's engine didn't need hydropower.
- 7) Catherine II didn't appreciate the new invention.
- 8) This steam engine machine could be used in a dry area.
- 9) There is no working model of Polzunov's machine left.

II. Расставьте следующие предложения в нужном порядке, чтобы получился план, и перескажите по нему текст.

- 1) The director of Barnaul plants agreed to use Polzunov's engine because it didn't need hydropower.
- 2) The design of his steam engine and its difference from the previous steam engines.
- 3) His engine worked for three months but Polzunov will always be remembered as the great Russian inventor.
- 4) Ivan Polzunov was a Russian inventor.
- 5) His origin, his studies and occupation.