



METHODS OF TEACHING MATHEMATICS IN GRADES 3–4 BASED ON REAL-LIFE EXAMPLES

Turaev Farkhodjon Farmonovich

farhodjon9618@mail.ru Associate Professor (Acting) at the
Department of Mathematics and Physics, Alfraganus University,(PhD)
<https://doi.org/10.5281/zenodo.18324021>

ARTICLE INFO

Received: 18th January 2026

Accepted: 19th January 2026

Online: 20th January 2026

KEYWORDS

mathematics, grades 3–4, real-life examples, primary education, teaching methodology

ABSTRACT

This thesis examines the effectiveness of teaching mathematics to students of grades 3–4 based on real-life examples, taking into account their age and psychological characteristics. The use of simple everyday situations to form mathematical concepts is scientifically and methodologically justified as a means of increasing students' interest in the subject and creating a strong foundation of knowledge.

Introduction. The primary education stage, especially grades 3–4, plays an important role in the development of students' mathematical thinking, calculation skills, and logical reasoning. At this stage, mathematical concepts should be presented in a simple, clear, and life-related manner. Otherwise, students may lose interest in mathematics. Therefore, teaching mathematics through real-life examples is considered one of the essential requirements of modern education.

Connecting Mathematics with Real Life in Grade 3

In grade 3, students study addition, subtraction, multiplication, and division more deeply. Teaching these topics through real-life examples is highly effective, such as:

- adding the prices of several products while shopping at a market;
- explaining division by equally distributing pencils or notebooks;
- calculating time based on a daily schedule.

Such activities help students understand the practical importance of mathematics in everyday life.

Mathematics and Real-Life Problems in Grade 4

In grade 4, students learn more complex forms of multiplication and division, as well as units of length, mass, and time. For example:

- explaining meters and centimeters by measuring objects in the classroom;
- determining the weight of products using scales;
- learning days, weeks, and months using a calendar.

These examples develop students' observation skills and logical thinking.

Using Real-Life Examples in Teaching Methodology

The following methods are effective in teaching mathematics in grades 3–4:

- using visual aids;
- game-based learning methods;

- pair and group work;
- creating problems based on pictures and real objects.

These methods encourage active participation of students during mathematics lessons.

Conclusion

In conclusion, teaching mathematics in grades 3–4 based on real-life examples helps build a strong foundation of mathematical knowledge. Such an approach increases students' interest in the subject and contributes to successful learning of mathematics in later stages of education.

References:

1. Jumayev, M. Methods of Teaching Mathematics in Primary Grades. — Tashkent: O'qituvchi, 2019.
2. Alimuhamedov, M. Methods of Teaching Mathematics. — Tashkent: O'qituvchi, 2018.
3. Ministry of Public Education of the Republic of Uzbekistan. State Educational Standard for Primary Education. — Tashkent, 2021.
4. Qosimova, K. Interactive Methods in Primary Education. — Tashkent, 2020.

