



## Lesson Plan

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## Lesson Plan

|  |                             |                       |
|--|-----------------------------|-----------------------|
| <b>Grade: 7</b>  |                             | <b>Time: 45m</b>      |
| <b>Teacher: Vladislava Avramenko</b>   |                             | <b>Date: 7.11.17.</b> |
| <b>Country: Estonia</b>  | <b>Subject: Mathematics</b> |                       |
| <b>Topic Area: Actions with rational numbers</b>   |                             |                       |
| <b>Aims: By the end of this lesson students will be able to:</b><br>* use rules of addition and subtraction of negative and positive numbers<br>* use rules of multiplication and division of rational numbers<br>* applying the rules, solve tasks of all actions with rational numbers   |                             |                       |
| <b>Aids<sup>1</sup>: students' digital devices; projector, smartboard, various digital apps and WebPages:</b> <a href="http://www.learningapps.org">www.learningapps.org</a> ,<br><a href="https://www.thatquiz.org/tq-1/math/arithmetric/">https://www.thatquiz.org/tq-1/math/arithmetric/</a><br><a href="http://www.zum.de">http://www.zum.de</a> |                             |                       |
| <b>Procedure:</b>  |                             | <b>Time</b>           |
| Warm up/ review:<br>Step 1: Mental arithmetics. Completing worksheets in pairs.<br><a href="http://kke.innove.ee/images/failid/pdf/toolehed/7_klass/Matemaatika_1_pa45-53.pdf">http://kke.innove.ee/images/failid/pdf/toolehed/7_klass/Matemaatika_1_pa45-53.pdf</a>   |                             | <b>15</b>             |
| Step 2: Group work. Solution of exercises in the form of a puzzle in the learning environment<br><a href="http://www.learningapps.org">www.learningapps.org</a><br><a href="https://learningapps.org/display?v=pcgysnvt">https://learningapps.org/display?v=pcgysnvt</a>   |                             | <b>10</b>             |

<sup>1</sup> Attach worksheets, Other material used, links to websites...

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Step 3: Individual solution of the exercises on the web-sites

<http://www.zum.de/dwu/depothp/hp-math/hpmzz16.htm>

<http://www.zum.de/dwu/depothp/hp-math/hpmzz21.htm>

<http://www.zum.de/dwu/depothp/hp-math/hpmzz25.htm>

Step 4: Checking answers

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**Homework:** solve 20 exercises on the website

<https://www.thatquiz.org/tq-1/math/arithmetric/>

**Evaluation:** Verbal, formative

**Summary:**

Students are able to solve exercises with all actions of rational numbers

