

An aerial photograph of a city, likely Jyväskylä, Finland, featuring a large river, a bridge, and various residential and commercial buildings. The text is overlaid on the top left of the image.

# **MATHMARKET**

## **PRE-ASSIGNMENT IN MATHEMATICS FOR ENGINEER AND UNIVERSITY STUDENTS**

JAMK Jyväskylä University of Applied Sciences

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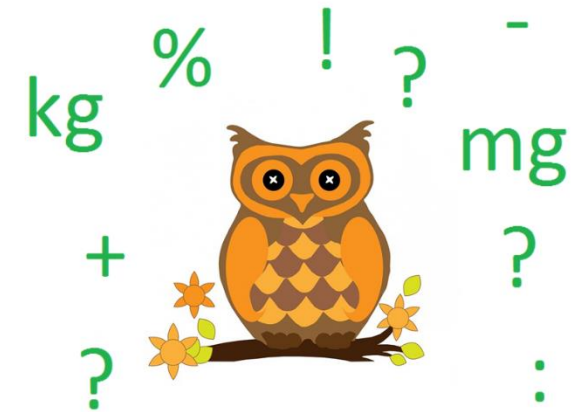
Autumn 2018



# Why MathMarket?

- Wish from the students
- Difficulties in basic mathematics
  - 😞 Gap years after high school or vocational school
  - 😞 Lack of motivation in math in earlier studies
  - 😞 Difficulties in understanding math
- Difficulties in mathematics
  - 😞 difficulties in physics
  - 😞 difficulties in professional studies

MathMarket

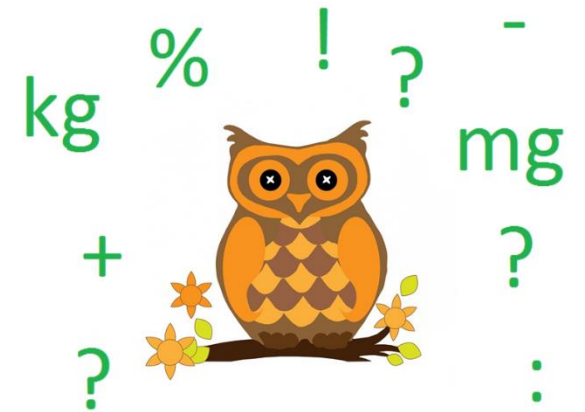


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# What is MathMarket?

- Pre-assignment in Mathematics
- Build because of students feedback
- Build in co-operation
  - 2 high school teachers
  - 2 vocational school teachers
  - 3 lectures from university of applied sciences
  - 1 university lecturer and 1 professor
  - 3 university teacher trainees

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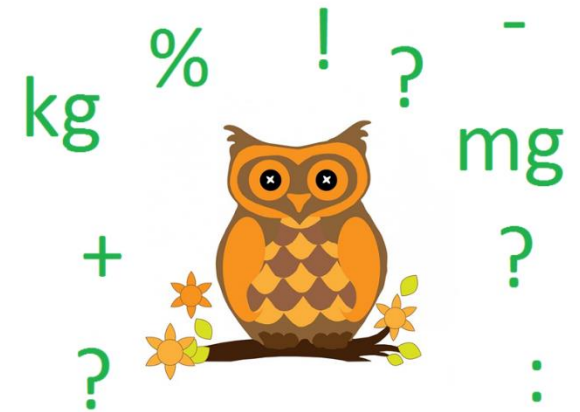


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# For whom is MathMarket?

- For technology students in JAMK University of Applied Sciences
  - Summer 2018: in total 314 students
  - Exercise is open 28.6.-20.8.
- For students in JYU

MathMarket

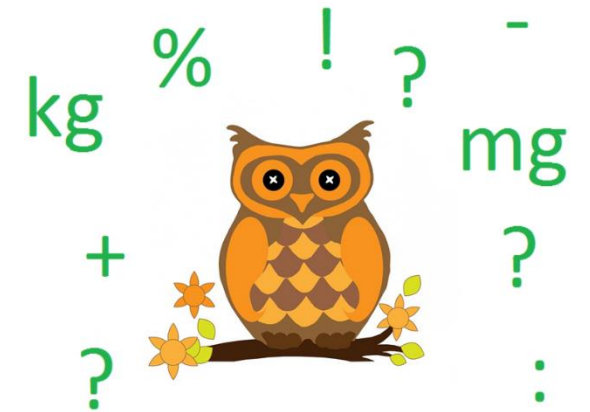


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# What students do in MathMarket?

- Learning files and videos
- Quizzes
- Driving Licenses (Exams)
  - Driving license 1a
    - Vocational school
    - High school with basic syllabus courses in math
  - Driving license 1b
    - High school with advanced syllabus courses in math
  - Driving license 2a
    - UAS in technology
  - Driving license 2b
    - University students

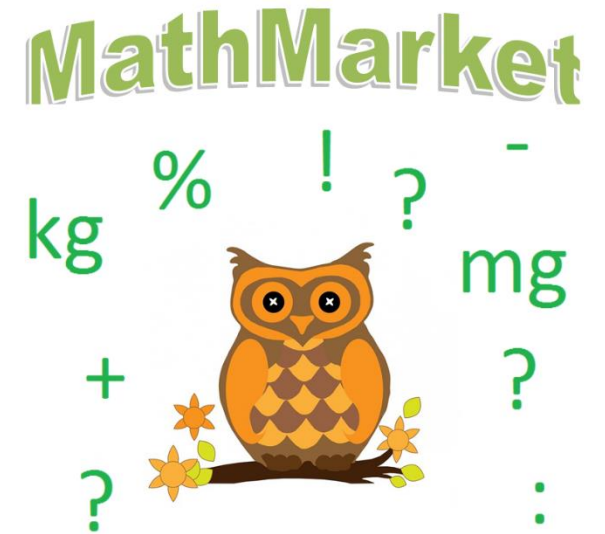
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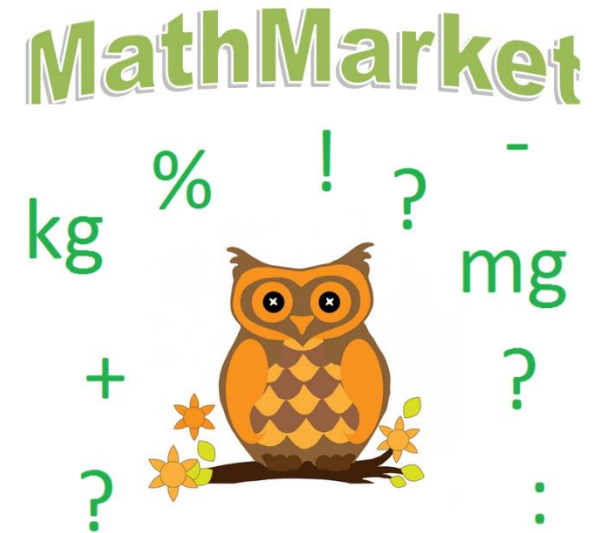
# Does MathMarket help?

- Over 90 % of the students considered the assignment important (summer 2017; 96 % of those who made Driving License 1a!)
- Students' feedback: trained skills were needed also in other courses than math
- Teachers' opinion: As studying started, during the first weeks students made questions they never asked before



# About the collaboration

- Collaboration increased reciprocal understanding
- The concern of the mathematical skills of the new students brought us together in such a way where all the boundaries between the organizations lost their meaning
- Participant's opinion: This net of collaboration between the vocational school, high school, university of applied sciences and university is of great importance. We share the same mission as the University of Jyväskylä in its strategy:  
Enabling excellence for the future





# BY EDUCATION YOU GET WINGS!

WE USE THE SAME AIR -> COLLABORATION

THANK YOU!

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