

Digital Mathematic Environment



Wahid Yuniyanto

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SEAMEO QITEP in Mathematics

Edu. Background:

Mathematics (SSi)

Yogyakarta State University

Mathematics Education (MSc)

Sriwijaya University-Utrecht University

Mathematics Education (MA)

University College London, IOE

Field of Interest:

RME, Math. Modelling, Problem Solving,
Items for Assessment, Digital Tech



Industry Revolution 4.0

How are we going to learn teach math?

DME

The DME (Digital Mathematics Environment) is a digital learning and assessment environment for mathematics in secondary and higher education. Interactive teaching methods and feedback play a central role.

Students can work at any time on modules that have been selected for them and receive feedback on their answers. Teachers can view the students' work and adapt modules and activities to meet the class' needs.

Numworx. The digital mathematics environment

Numworx makes learning mathematics easier and fun!

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<https://www.numworx.nl/en/>

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The Numworx Team

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Numworx works together with:
Freudenthal Institute
Utrecht University

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Numworx Free

Because math education makes a difference

Numworx's standard modules are available for everyone. Students and teachers can create an account without charge and all completed learning activities are stored. Why? For Numworx Solutions it is important that Numworx functions remain widely available for those involved in teaching and learning mathematics. We care about education!

Fee

EUR 0

(forever)

Start with Numworx Free

Exam

Author

LMS

Documentatie

Bibliotheek

Player

Onbeperkte opslag

Helpdesk

Bewaren ingevuld werk

ELO integratie

Backup Service

HOW TO USE IT?

Register for a free account

username*

given name*

insertion

family name*

email address*

password*

new password
again*

Explore the free activities

STUDENT

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Library

- Numworx Modules Secondary Education
 - SE Lower Grades**
 - Views (exercise)
 - Linear equations (lesson)
 - Simplifying polynomials (lesson)
 - Cube Buildings (exercise)
 - Fractions, basic (lesson)
 - Calculate the area (exercise)
 - Reading Graphs (exercise)
 - Terms and factors (lesson)
 - Finding Formulas (exercise)
 - Brackets, Area, and Tables (exercise)
 - Nets and cross sections (exercise)
 - Area algebra (exercise)
 - Meaningful lines (lesson)
 - Quadratic equations (exercise)
 - Powers and order of operations (lesson)
 - Stairs, shadows, and more (lesson)
 - Functions and Arrow chains
 - Programs for building
 - SE Higher Grades
 - Higher Education
 - Old

SE Lower Grades

On this page you find a versatile collection of digital mathematics modules. These modules fit in the mathematics curriculum of the lower grades of secondary education. These modules can be used in addition to any mathematics textbook for this level. These modules contain multiple exercises, but also introductions and explorations on several subjects.

Views (exercise)

Linear equations (lesson)

Simplifying polynomials (lesson)

$$2 \cdot 3x + 5 \cdot -2 + 4 \cdot -x$$

Cube Buildings (exercise)

Fractions, basic (lesson)

total number of parts is 4 total number of parts is 5

Calculate the area (exercise)

Reading Graphs (exercise)

Terms and factors (lesson)

$$\text{length} = l + 6w$$
$$\text{length} = 6l + 2w$$

Finding formulas (exercise)

$$y = x^2 + \dots$$

Brackets, Area, and Tables (exercise)

Explore the free activities

Calculate the area

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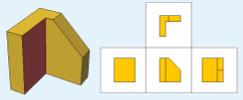
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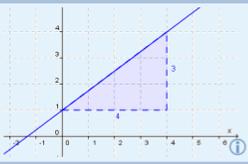
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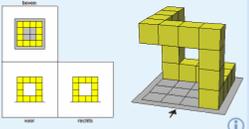
Linear equations (lesson)



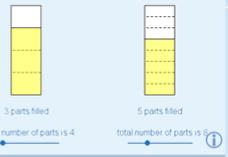
Simplifying polynomials (lesson)

$$2 \cdot 3x + 5 \cdot -2 + 4 \cdot -x$$

Cube Buildings (exercise)



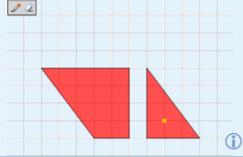
Fractions, basic (lesson)



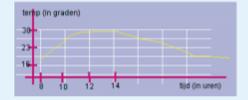
3 parts filled 5 parts filled

total number of parts is 4 total number of parts is 5

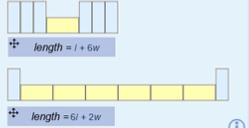
Calculate the area (exercise)



Reading Graphs (exercise)



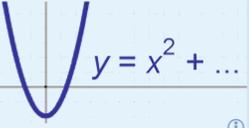
Terms and factors (lesson)



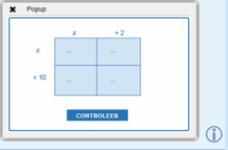
length = $l + 6w$

length = $6l + 2w$

Finding formulas (exercise)


$$y = x^2 + \dots$$

Brackets, Area, and Tables (exercise)



PopUp

x	+2
-	-
+10	-

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Explore the free activities

Cube Building?

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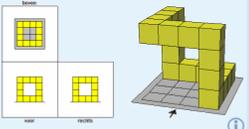
Linear equations (lesson)



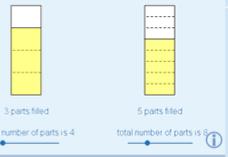
Simplifying polynomials (lesson)

$$2 \cdot 3x + 5 \cdot -2 + 4 \cdot -x$$

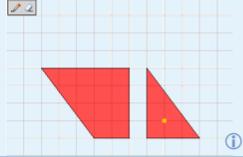
Cube Buildings (exercise)



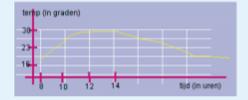
Fractions, basic (lesson)



Calculate the area (exercise)



Reading Graphs (exercise)



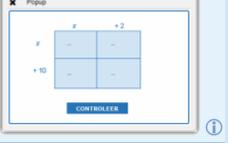
Terms and factors (lesson)

$$\text{length} = l + 6w$$
$$\text{length} = 6l + 2w$$

Finding formulas (exercise)

$$y = x^2 + \dots$$

Brackets, Area, and Tables (exercise)



Explore the free activities

Brackets, Area, Tables

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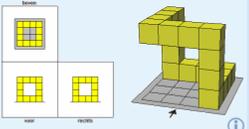
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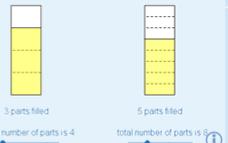
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Cube Buildings (exercise)



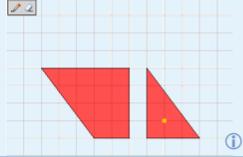
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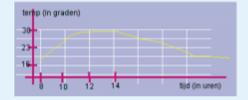
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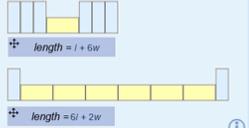
Calculate the area (exercise)



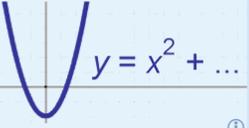
Reading Graphs (exercise)



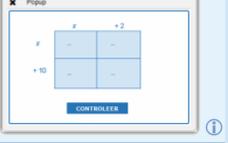
Terms and factors (lesson)


$$\text{length} = l + 6w$$
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Finding formulas (exercise)


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Brackets, Area, and Tables (exercise)



x	+2
-	-
+10	-

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<https://app.dwo.nl/en/student/>

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Digital Mathematics Environment Secondary Education



numw^orx AUTHOR

VO

SE (English)

HO

HE (English)

Username:

WahidYunianto

Password:

[Forgot password?](#)

Login

Login as guest:

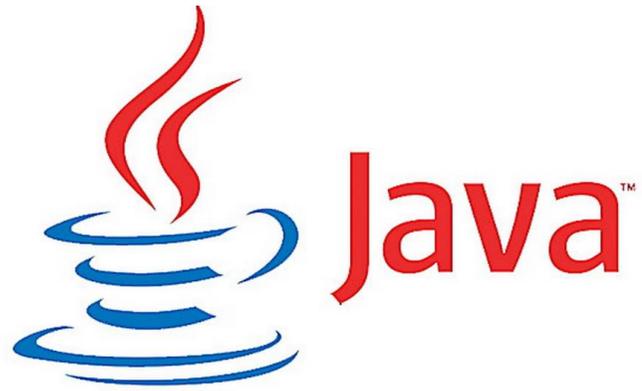
Login as Guest

Your work WONT be saved

Register for an account:

New account.

Requires



What Can I do?

- Modules
- My account
- My classes

File Edit

- All modules
- Numworx Modules Secondary Education
- Modules SAMEO Regional Centre

In this environment you will find a varied collection of math activities for secondary education. If you have an account for this environment (you can make one yourself), your results will be stored, and you can continue your work in another session.



SE Lower Grades



SE Higher Grades



Higher Education



Old

Results of class:

- SMP BMD
- Give a try
- Kalimantan
- ICT Palembang
- SIB
- SMP MARIA ASSUMTA
- RME2018
- class b
- Himatika
- SEADR Jogja

I can register you as my students

<https://app.dwo.nl/en/se/>

Username: SEADR1
SEADR2

Password: 123456

THANK YOU