User's Manual

CMZ2

Version 1.10.0

Worksheet Generator for Mathematics

Windows XP® - Windows Vista® - Windows 7® - Windows 8® - Windows 10®

VAXA SOFTWARE

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Introduction

CMZ2 is a Windows software for automatic generation of Worksheets of problems, exercises and questions of Mathematics for educational purposes.

Please, read this manual carefully to learn all the capabilities of the software.

Terms of use

In no event shall VaxaSoftware be liable to anyone for direct, indirect, special, collateral, incidental, or consequential damages by the use or impossibility of use of the software, nor by the effects in the operation of other software or the operating system.

Before the installation we recommended to make backup of your data and create a restoration point.

You will be able freely to evaluate the software during the time that considers necessary. Passed this period of evaluation you would have or to register it or uninstall it.

To register the software, please see the option "REGISTER APPLICATION" in the help menu of the software.

After paying the registry fee you will receive by email the REGISTRATION KEY of the software.
Once registered the software, it will be able to use the options that were disabled until that moment.

The REGISTRATION KEY is UNIQUE for EACH COMPUTER.

You cannot use the same REGISTRATION KEY for multiple computers.

You can freely distribute unaltered copies of the installation system of the software to other users.
You cannot decompile the software nor use no type of reverse engineer for its analysis or modification.
You cannot use part or the totality of the software to create a new software.

COOKIES
VaxaSoftware only uses cookies during the registration process.
If you want to register the software without using cookies, please contact us at info@vaxasoftware.com

Conflicts of shared files:

VaxaSoftware assumes no liability for conflicts due to the incompatibility of shared files (*. dll, *. ocx and other files).

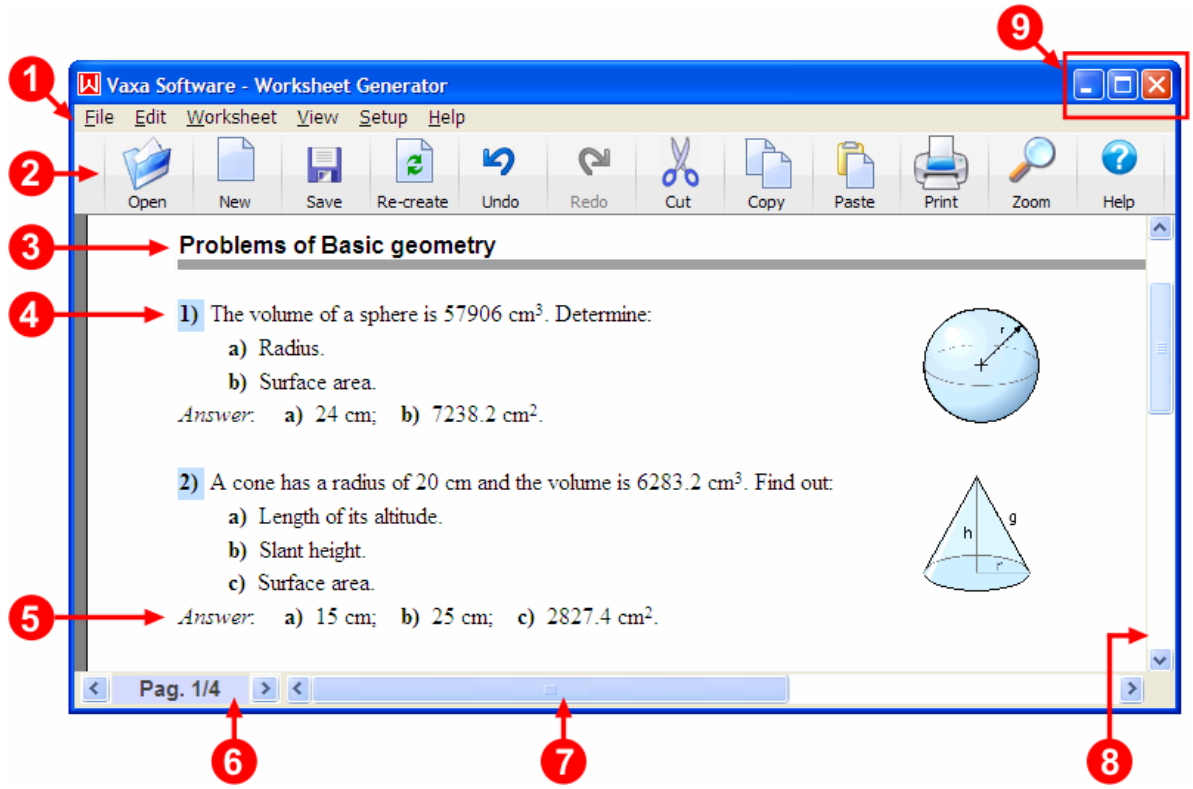
VaxaSoftware's software use shared files (*.dll, *.ocx and other files).
It is possible that the shared file already exists and whether or not previously replaced by a different version during the installation of the VaxaSoftware's software.
This can cause the installed software may not work and/or a third party software that shares the same file does not.

Also the installation of a third party software can cause the VaxaSoftware's software or third party software may not work correctly.

VaxaSoftware will try to resolve these conflicts in a reasonable manner, despite its satisfactory resolution is not guaranteed.

Design, products, specifications, and prices are for information purposes only. VaxaSoftware reserves the right to change or modify design, products, specifications, and prices at any time without prior notice.

Main window



(1) Menu bar

It contains the menus: *File*, *Edit*, *Worksheet*, *View*, *Setup* and *Help*.

File menu

New worksheet... menu
Opens the *Wizard* window that will help us create a new worksheet.

Open... menu
Opens the *dialog* window to select and open a worksheet file (*. col).

Create custom worksheets for a group of students... menu
Allows us create custom worksheets for a group of students based on the current document. The list of students must be a text file with one name per line.

Save menu
Saves the current worksheet. If the worksheet is new or has been re-created, will be saved as a new file and we asked for a file name and a path to save it.

Save as... menu
Shows the *dialog* window to select a path and a filename (*. col) to save the current worksheet.

Print... menu
Opens the *Print* window. In it we can select the printer destination and specify the pages we want to print and the number of copies.

Print all worksheets from a folder... menu
Allows us print the worksheets from a folder.

List of recent files menu
Lists recent files opened or saved. To open a file will click on its name.

Exit menu
Closes the application.

Edit menu

Undo menu
Undoes last action.

Redo menu
Returns to the state before last *Undo*.

Cut menu
Copies selected problem to the clipboard and deletes it.

Copy menu
Copies selected problem to the clipboard.

Paste menu
Inserts the problem that is on the clipboard into the worksheet.

Delete menu
Erases selected problem.

Move to the beginning menu
Moves to the top selected problem.

Move to the end menu
Moves to the end selected problem.

Move up menu
Moves up one position selected problem.

Move down menu
Moves down one position selected problem.

Re-create this problem menu
Re-creates selected problem.
The created problem will be of the same type but with other data and/or statement.
The new problem replaces the selected one.

Insert another similar problem menu
Creates another problem of the same type that the selected one.
The created problem will be of the same type but with other data and/or statement.
The new problem will be inserted in the position of the selected one.

Worksheet menu

Re-create worksheet menu
Creates another worksheet and replaces the current worksheet.
The new re-created worksheet will be of the same type of problems but with other data and/or statements.

◆ ***Note:***
This new re-created worksheet is assumed as a new file.

No answers menu
Hides the answers of the problems.

Answers after each problem menu
Puts the answers of each problem after the statement of each one.

Answers together at the end menu
Puts the answers of problems all together at the end of the worksheet.

Answers in a separate page menu
Puts the answers of problems together in new pages at the end of the worksheet.

Properties menu
Opens the *Properties of the* Worksheet window to change general properties of the current worksheet.

➔ See ***Description of parts: Properties of the Worksheet window*** for further details.

View menu

Editing buttons menu
Shows / hides editing buttons: ***Undo, Redo, Cut, Copy*** and ***Paste.***

Zoom menu
Allows us set size of the current worksheet.
The following settings are available: ***Fit to page width, 50%, 75%, 100%, 150% and 200%***.

Setup menu

Show Startup window menu
Allows us show/hide the startup options window when Worksheets Generator starts.

Help menu

User's manual (PDF document)... menu
Shows this manual.

Application registration menu
Shows the registration form window to register the application.

Disabled functions in the unregistered version menu
Shows the list of disabled functions when the application is not registered.

Home page (www.vaxasoftware.com)... menu
Connects to VaxaSoftware home page.
An active Internet connection and a browser are required.

About... menu
Shows the *Splash* window with the version and description of the application.

(2) Buttons bar

Open button
➔ See ***File / Open*** menu for further details.

New button
➔ See ***File / New worksheet*** menu for further details.

Save button
➔ See ***File / Save*** menu for further details.

Re-create button
This button can either re-creates a selected problem or the whole worksheet.

1) If nothing is selected the whole worksheet is re-created.
The new worksheet replaces the old one and is considered as a new file.
The new re-created worksheet has the same type of problems but with other data and/or statements.

2) If there is a selected problem a new problem is re-created.
This new problem replaces the old selected one. The new problem is similar type but with other data and/or statements.

Undo button
➔ See ***Edit / Undo*** menu for further details.

Redo button
➔ See ***Edit / Redo*** menu for further details.

Cut button
➔ See ***Edit / Cut*** menu for further details.

Copy button
➔ See ***Edit / Copy*** menu for further details.

Paste button
➔ See ***Edit / Paste*** menu for further details.

Print button
➔ See ***File / Print*** menu for further details.

Zoom button
➔ See ***View / Zoom*** menu for further details.

Help button
➔ See ***Help*** menu for further details.

(3) Worksheet title

Shows us the worksheet title.
To change the title we access the properties of the worksheet clicking on the ***Worksheet / Properties of the worksheet*** menu.

➔ See ***Description of parts: Properties of the Worksheet window*** for further details.

(4) Statement of the problem

Problem number and its statement.

➔ We can select a problem clicking on it with the main button of the mouse.
Then we can edit it using the ***Edit*** menu options.
Also we can access the ***Edit*** menu options clicking the secondary button of the mouse when a problem is selected.

➔ See ***Edit*** menu for further details.

We can change the style of the problems number (initial number, prefix, suffix and color).
To change the problem number properties we access the properties of the worksheet clicking on the ***Worksheet / Properties of the worksheet*** menu.

(5) Answer of the problem

Shows us the answer of the problem.
The answer of a problem can be hided / shown and changed of place.

➔ See ***Worksheet*** menu for further details.

(6) Page scroll bar

Shows us the number of the current page and the total pages of the worksheet.

We can press buttons on the left and right side of the page number to access to the previous or next page. Also we can press ***Page Up*** and ***Page Down*** cursor keys.

To access to the first page we can press the ***Home*** cursor key, to access to the end one we press the ***End*** cursor key.

◆ ***Note:***
Page numbers shown are ordinals numbers. If our pages are numbered and the first number isn't 1 then the page number that appears on the page does not match that shown in the bar.

Example:
If the first page of our worksheet is numbered from 15 to 18 the displayed numbers will be the following:
Page 15 is shown as **Pag. 1/4** .
Page 16 is shown as **Pag. 2/4** .
Page 17 is shown as **Pag. 3/4** .
Page 18 is shown as **Pag. 4/4** .

(7) Horizontal scroll bar

Allows us move current page horizontally if that does not fit entirely in the window.
Also we can press ***Left*** ← and ***Right*** → cursor keys.

(8) Vertical scroll bar

Allows us move current page vertically if that does not fit entirely in the window.
Also we can press ***Up*** ↑ and ***Down*** ↓ cursor keys.

(9) Window control buttons

Minimize button
Minimizes the application to an icon on the desktop.

Maximize / Restore button
Maximizes / restores the application's window size.

Close button
Closes the application. Also we can press Alt + F4 keys on our keyboard.

Wizard window

The *Wizard* window allows us select the subject, topics, types and amount of problems we want create.

We have two ways to start the *Wizard* window:

1) Clicking on the ***File / New worksheet*** menu.
2) Clicking on the ***New*** button.

We can move through the *Wizard* window pressing ***Back*** and ***Next*** buttons.
To close the *Wizard* click on ***Cancel*** button.

The *Wizard* has the following windows:

- ***Start***
- ***Select the subject***
- ***Types of documents***
- ***Select topics, types and amount of problems***
- ***Problem numbers / Page numbers***
- ***Position of the answers / Sorting method***
- ***Worksheet title***

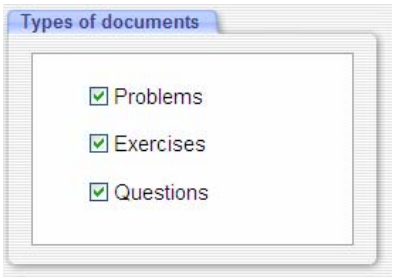
Start window

Gives us a brief description of the *Wizard*.

Select the subject window

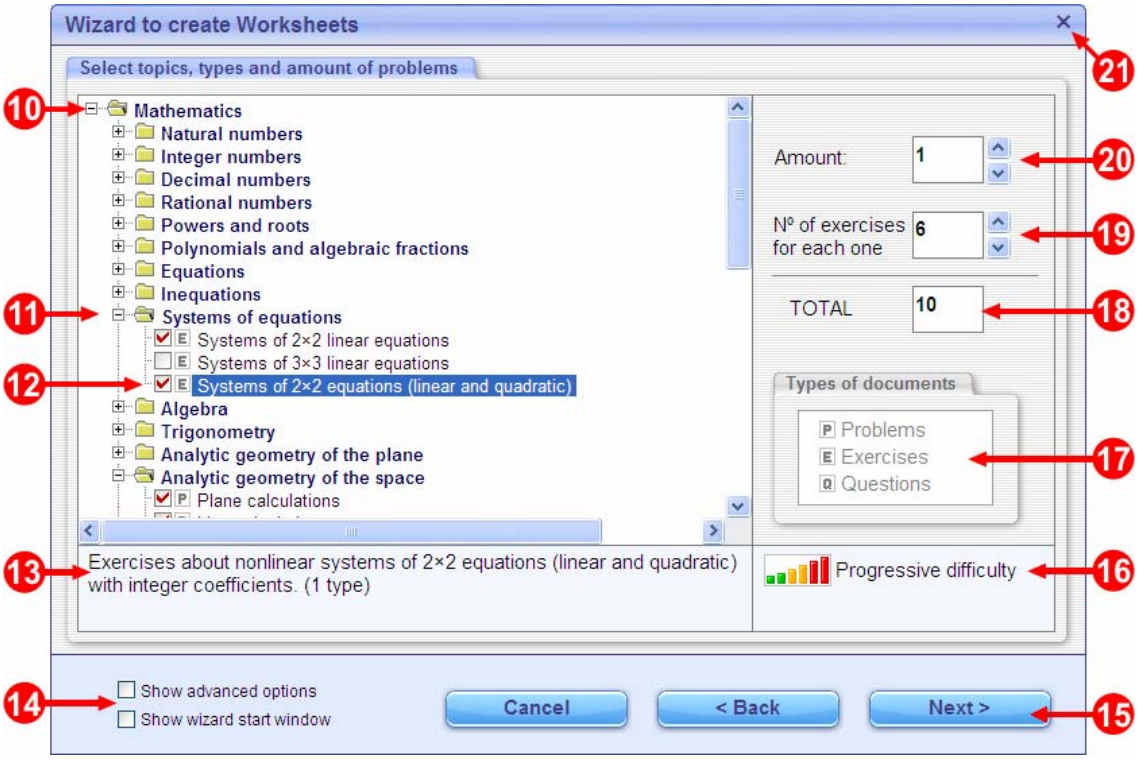
Allows us select the subject of the problems we want create.

Types of documents window



Lets us filter the types of documents: Problems, exercises or questions.

Select topics, types and amount of problems window



(10) **Subject** folder

Displays the name of the subject previously selected.

(11) **Topic** folder

Displays the name of the topic.

(12) Type of document mark: Problem, Exercise, Question

Shows the name and type of document according to the mark to the left of each name:
[P] Problems, **[E]** Exercises, **[Q]** Questions.

(13) Description of the current problem

Displays extended information about the problem, exercise or question selected.

(14) View options

Allows us show or hide windows of the wizard:

Show advances options
When this option is activated we can access the followings windows:

- ***Types of documents***.
- ***Problem numbers / Page numbers***.
- ***Position of the answers / Sorting method***.

Show wizard start window
When this option is activated we can access the start window of the Wizard.

(15) Buttons

Cancel button
Closes the *Wizard* window.

Back button
Shows previous window of the *Wizard*.

Next button
Shows next window of the *Wizard*.

(16) *Difficulty level* mark

Indicates the difficulty level of the selected problem. The difficulty level may be:

Progressive difficulty: 

★☆☆ ***Low difficulty***

★★☆ ***Medium difficulty***

★★★ ***High difficulty***

◆ ***Note***
The ***Difficulty Progressive*** function will not work if the worksheet is created as *unsorted*.

(17) Legend about ***Types of documents***

Shows the type of document according to the mark to the left of each:
[P] Problems, **[E]** Exercises, **[Q]** Questions.

(18) *Total amount of documents (problems)*

Shows the total number of documents (problems, exercises and questions) selected.

◆ ***Note:***
We cannot create more than 500 problems in a single worksheet.
If we need more than 500 problems, we have to distribute them in various worksheets with 500 or less problems in each one.

(19) *Amount of elements in each exercise or question*

If the document type is exercise or question, we can specify the number of items we want to create within each.
The elements are sorted alphabetically from ***a*** to ***z*** (26 elements is the maximum amount).
The default amount is 6.
The minimum amount is 2.
The maximum amount is generally 26, but may be lower.

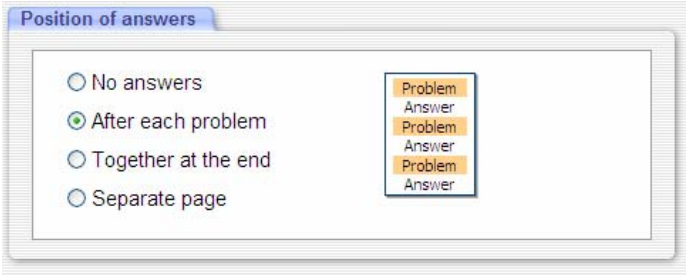
(20) *Amount of problems (exercise or question)*

It allows us specify the amount of problems we want to create of the selected type.
The default amount is 1.
The maximum amount is 99.

(21) *Close* button

Closes the *Wizard* window.

Position of answers / Sorting method window



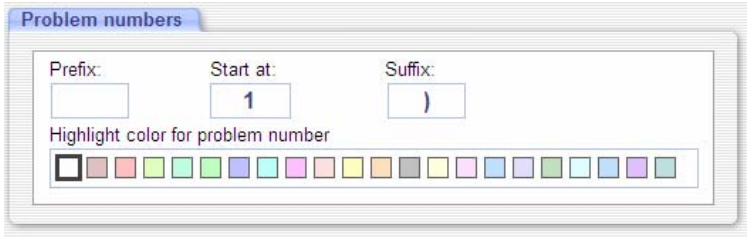
Position of answers
Specifies four options for the position of the answers:
- ***No answers***
- ***Answers after each problem***
- ***Answers together at the end***
- ***Answers on a separate page***

➔ See ***Worksheet*** menu for further details.

Sorting method
Allows us sort the problems by topics or randomly (unsorted).

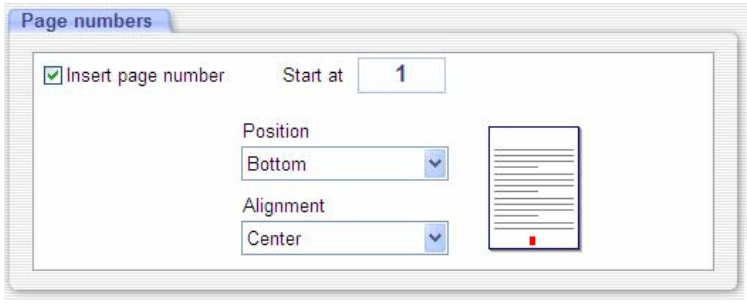
◆ ***Note***
If the worksheet is created as unsorted the ***Difficulty Progressive*** function will not work .

Problem numbers / Page numbers window



Problem numbers
Sets the following four properties for the number of the problems:
- *Prefix:* Text that appears to the left of the number of each problem (default is empty).
- *Suffix:* Text that appears to the right of the number of each problem.
  (Default is a close parenthesis).
- *Start at:* Initial problem number (default is 1).
- Highlight color: Background color of the problem number text (default is white).

◆ ***Note:***
The initial number must be less than 2000.

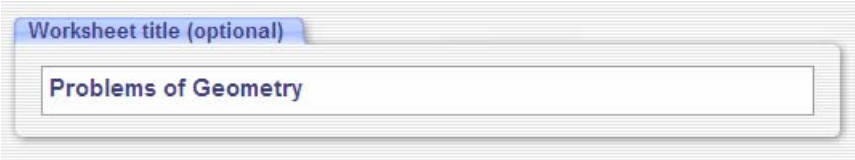


Page numbers
Sets the position of page number and its initial value:

- *Insert page number* option: Click on this option to turn on/off page numbering.
- *Start at:* Specifies the initial number (default is 1).
- *Position*: Sets the placement of the page number:
  - ***Up***
  - ***Down***.
- *Alignment*: Specifies the alignment of the page number:
  - ***Left***
  - ***Center***
  - ***Right***
  - ***Inside***
  - ***Outside***

◆ ***Note:***
The initial number must be less than 2000.

Worksheet title window



Allows us specify the text that leads all the pages of the worksheet.

Properties of the worksheet window

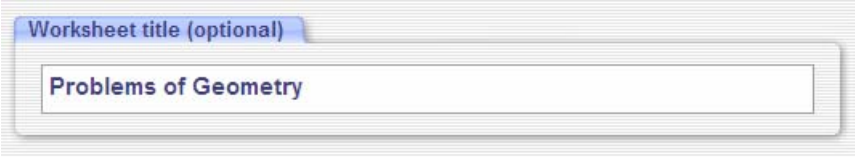
The *Properties of the worksheet* window allows us modify the general properties of the current worksheet.

To access the *Properties of the worksheet* window click on the ***Worksheet / Properties of the worksheet*** menu.

This window has the following options:

- ***Title***
- ***Problem numbers***
- ***Page numbers***
- ***Position of answers***
- ***Sorting method***

Worksheet title option



Allows us specify the text that leads all the pages of the worksheet.

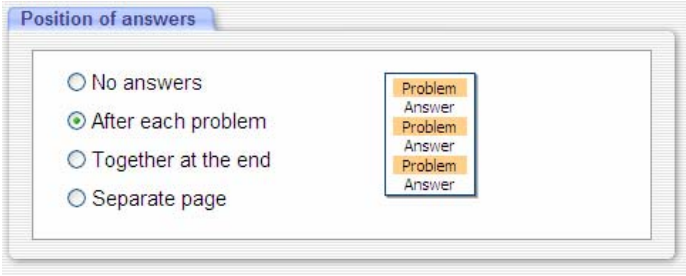
Sorting method option

Allows us sort the problems by topics or randomly (unsorted).

◆ ***Note 1:***
We cannot sort a worksheet that was created as unsorted.

◆ ***Note 2:***
The ***Difficulty Progressive*** function will not work if we mark the worksheet as unsorted.

Position of answers option

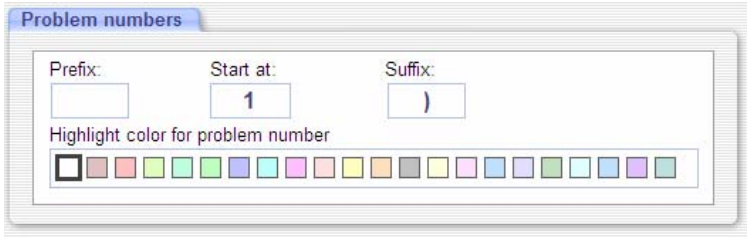


Specifies four options for the position of the answers:

- ***No answers***
- ***Answers after each problem***
- ***Answers together at the end***
- ***Answers on a separate page***

➔ See ***Worksheet*** menu for further details.

Problem numbers option

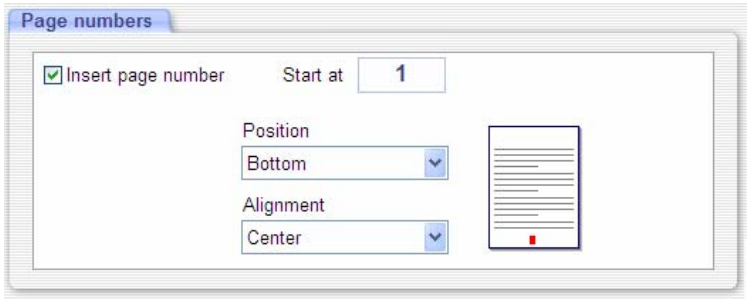


Sets the following four properties for the number of the problems:

- *Prefix:* Text that appears to the left of the number of each problem (default is empty).
- *Suffix:* Text that appears to the right of the number of each problem. (Default is a close parenthesis).
- *Start at:* Initial problem number (default is 1).
- Highlight color: Background color of the problem number text (default is white).

◆ ***Note:***
The initial number must be less than 2000.

Page numbers option



Sets the position of page number and its initial value:

- *Insert page number* option: Click on this option to turn on/off page numbering.
- *Start at:* Specifies the initial number (default is 1).
- *Position*: Sets the placement of the page number:
  - ***Up***
  - ***Down***.
- *Alignment*: Specifies the alignment of the page number:
  - ***Left***
  - ***Center***
  - ***Right***
  - ***Inside***
  - ***Outside***

◆ ***Note:***
The initial number must be less than 2000.

Shortcut keys

List of keyboard shortcuts available in the ***Main*** window.

Ctrl + N	New worksheet
Ctrl + O	Open
Ctrl + S	Save
Ctrl + P	Print
Ctrl + F4	Exit
Alt + F4	Exit
Ctrl + R	Re-create worksheet
Ctrl + Z	Undo
Ctrl + Y	Redo
Ctrl + X	Cut
Ctrl + C	Copy
Ctrl + V	Paste
Del	Delete
Ctrl + E	Re-create selected problem
Ctrl + I	Insert a similar problem to the selected one
F1	Help / User's Manual (PDF document...)
F2	Move up selected problem
F3	Move down selected problem
F4	Open *Properties of the worksheet* window
Up arrow	Move down current page
Down arrow	Move up current page
Left arrow	Move right current page
Right arrow	Move left current page
Page Up	Access to previous page
Page Down	Access to next page
Home	Access to first page
End	Access to last page

List of subjects, topics and types of problems

Mathematics

Natural numbers
- Addition and subtraction of natural numbers
- Multiplication of natural numbers
- Division of natural numbers I
- Division of natural numbers II
- Rounding natural numbers
- Expanding natural numbers in powers of 10
- Repeated multiplications as powers
- Powers as repeated multiplications
- Finding set of divisors of a number
- Prime factorization of a number
- Converting numbers between scientific and standard notation
- Lcm and gcm of natural numbers

Integer numbers
- Addition and subtraction of integer numbers
- Multiplication and division of integer numbers

Decimal numbers
- Addition and subtraction of decimal numbers
- Multiplication of decimal numbers
- Division of decimal numbers

Rational numbers
- Fraction of shaded shapes I
- Fraction of shaded shapes II
- Simplifying fractions
- Sorting fractions
- Addition and subtraction of fractions
- Addition, subtraction, multiplication and division with fractions
- Converting decimal numbers to fractions

Real numbers
- <R> Intervals I
- <R> Intervals II
- <R> Intervals III
- <R> Intervals IV
- Rounding real numbers
- Convert from standard notation into scientific notation
- Convert from scientific notation into standard notation
- Addition and subtraction in scientific notation
- Multiplication and division in scientific notation

Unit conversion
- Mass conversion (metric)
- Length conversion (metric)
- Area conversion I (metric)
- <R> Area conversion II: Square meter and hectare
- <R> Volume conversion I: (metric)
- <R> Volume conversion II (metric)
- <R> Volume conversion III (metric)
- Temperature conversion I (Celsius - Fahrenheit)
- <R> Temperature conversion II (Celsius - Fahrenheit - Kelvin)
- <R> Length conversion (metric - imperial)
- <R> Mass conversion (metric - imperial)

Angle calculations
- Adding angle measures
- Subtracting angle measures
- Multiplying angle measures
- Dividing angle measures
- Complementary and supplementary angle calculation
- Angle calculation in triangles and other shapes

List of subjects, topics and types of problems (*continued*)

Powers and roots

Simplifying powers of natural numbers I
Simplifying powers of natural numbers II
Simplifying powers of rational numbers I
Simplifying powers of rational numbers II
Calculation of square roots in your head
Finding square roots using the algorithm
Root rationalization I: (monomial)
Root rationalization II: (binomial)
Root rationalization III: (n-th roots)
Addition and subtraction of square roots
Simplifying n-th roots

Percentages

Percentages: Direct calculations

Polynomials and algebraic fractions

Monomials: Coefficient and degree
Monomials: Addition and subtraction
Monomials: Multiplication
Monomials: Division
Monomials: Powers
Polynomials: Addition and subtraction
<R> Polynomials: Multiplication and power
<R> Binomial theorem
<R> Polynomials: Division I: Long division
<R> Polynomials: Division II: Ruffini's rule
<R> Polynomials: Division III: With parameters
Factoring polynomials I: Common factor
<R> Factoring polynomials II: $(a+b)^2$, $(a-b)^2$, a^2-b^2
<R> Factoring polynomials III: Ruffini's rule
<R> Algebraic fractions I: Simplifying algebraic fractions
<R> Algebraic fractions II: Multiplications and divisions
<R> Algebraic fractions III: Additions and subtractions

Sequences and progressions

<R> Arithmetic progressions I
<R> Arithmetic progressions II
<R> Geometric progressions I
<R> Geometric progressions II
<R> Geometric progressions III

Equations

Linear equations with integer coefficients
Linear equations with rational coefficients
<R> Word problems involving a linear equation
Incomplete quadratic equations
Complete quadratic equations
<R> Quadratic equations with constant in the denominator
<R> Quadratic equations with x as denominator
<R> Biquadratic equations
<R> Equations involving roots
<R> Exponential equations
<R> Logarithmic equations

Inequalities

Linear inequalities in 1 variable with integer coefficients
Linear inequalities in 1 variable with rational coefficients
<R> Absolute value inequalities
<R> Quadratic inequalities
<R> Rational inequalities
<R> Inequalities in 2 variables
<R> Systems of 2 linear inequalities in 1 variable
<R> Systems of 2 Linear Inequalities in 2 variables

List of subjects, topics and types of problems (*continued*)

Systems of linear equations
Systems of 2×2 linear equations
<R> Systems of 3×3 linear equations
<R> System of equations word problems

Systems of non-linear equations
<R> Systems of 2×2 equations (linear and quadratic)
<R> Systems of 2×2 equations (linear and irrational)
<R> Systems of 2×2 exponential equations
<R> Systems of 2×2 logarithmic equations

Matrices, determinats and systems of equations
Additions and subtractions of matrices
<R> Multiplication of matrices
Matricial equations I
Matricial equations II: type AX+B=C
<R> Systems of 2×2 matricial linear equations
<R> Determinant and inverse matrix with a parameter
Discuss and solve systems of 3×3 linear equations (without parameter)
<R> Discuss and solve systems of 3×3 linear equations (with parameter)

Basic geometry
Pythagorean theorem I
<R> Pythagorean theorem II
Similarity
<R> Plane shapes I: straight line segments
<R> Plane shapes II: straight line segments
<R> Plane shapes III: curved line segments
<R> Plane shapes IV: curved line segments
<R> Solid shapes I: plane surfaces
<R> Solid shapes II: plane surfaces
<R> Solid shapes III: curved surfaces
<R> Solid shapes IV: curved surfaces

Trigonometry
Trigonometric values from another one
<R> Trigonometric values from two other known
<R> Trigonometric identities
<R> Trigonometric equations
<R> Solving triangles
<R> Solving plane shapes.

Complex numbers
Adding and subtracting complex numbers
Multiplying and dividing complex numbers in cartesian form
Cartesian-polar conversions
Multiplying and dividing complex numbers in polar form
<R> Powers of complex numbers
<R> Root extraction of complex numbers
<R> Calculation of a parameter

Plane analytical geometry
Vectors I
<R> Vectors II
<R> Lines I
<R> Lines II
<R> Conics I: Circle
<R> Conics II: Ellipse centered at the origin
<R> Conics III: Ellipse not centered at the origin
<R> Conics IV: Hyperbola centered at the origin
<R> Conics V: Hyperbola not centered at the origin
<R> Conics VI: Parabola. Vertex at the origin
<R> Conics VII: Parabola. Vertex is not at the origin

List of subjects, topics and types of problems (*continued*)

Space analytical geometry

Vectors
Plane calculations
<R> Line calculations
<R> Alignment, coplanarity and distance of points
<R> Relative position of planes and lines (without parameter)
<R> Relative position of planes and lines (with parameter)
<R> Relative position of two lines (without parameters)
<R> Relative position of two lines (with parameters)

Limits

Limits involving rational functions
<R> Limits involving roots
<R> Limits involving subtraction of roots
<R> Limits of powers
<R> Limits using L'Hôpital's rule

Derivatives

<R> Derivative of functions I: No Chain rule - No Trigonometry
<R> Derivative of functions II: No Chain rule - Trigonometry
<R> Derivative of functions III: No Chain rule - No Trigonometry
<R> Derivative of functions IV: No Chain rule - Trigonometry
<R> Derivative of functions V: Chain rule - No Trigonometry
<R> Derivative of functions VI: Chain rule - Trigonometry
<R> Derivative of functions VII: Chain rule - No Trigonometry
<R> Derivative of functions VIII: Chain rule - Trigonometry
<R> Derivative of functions IX: Generalized power rule
<R> Implicit differentiation

Study of functions

Domain of a function I
Domain of a function II
Domain of a function III
<R> Inverse functions
<R> Function composition I
<R> Function composition II
Tangent line to a curve at a point
<R> Tangent line to a curve and parallel to a given line
Normal line to a curve at a point
<R> Finding polynomial functions involving derivatives
<R> Asymptotes I: Vertical
<R> Asymptotes II: Horizontal
<R> Asymptotes III: Oblique
<R> Asymptotes IV: Vertical, horizontal and oblique
<R> Maxima and minima of a function
<R> Monotonicity and extrema
<R> Inflection points of a function
<R> Concavity and inflection points
<R> Continuity I: Piecewise functions (without parameters)
<R> Continuity II: Piecewise functions (with 1 parameter)
<R> Continuity III: Piecewise functions (with 2 parameters)
<R> Derivability I: Without parameter
<R> Derivability II: With parameters
<R> Analyze function using the graph of its derivative I
<R> Analyze function using the graph of its derivative II
<R> Optimization

List of subjects, topics and types of problems (*concluded*)

Graphing functions

Basic I: Linear
Basic II: Quadratic
<R> Basic III: Exponential (non base e)
<R> Basic IV: Exponential (base e)
<R> Basic V: Logarithmic
<R> Basic VI: Simple rational
<R> Basic VII: Square root
<R> Advanced I: Cubic polynomial
<R> Advanced II: Rational
<R> Advanced III: Exponential
<R> Advanced IV: Logarithmic

Indefinite integrals

Integration by direct method I. Without trigonometrics
Integration by direct method II. With trigonometrics
<R> Integration by substitution I. Without trigonometrics
<R> Integration by substitution II. With trigonometrics
<R> Integration by parts I
<R> Integration by parts II
<R> Integration by parts III
<R> Integrals of rational functions I
<R> Integrals of rational functions II
<R> Integrals of rational functions III

Definite integrals

<R> Area between a curve and the X axis. Basic - No graphs
<R> Area between a curve and the X axis. Basic - With graphs
<R> Area between a curve and the X axis. Advanced - No graphs
<R> Area between a curve and the X axis. Advanced - With graphs
<R> Area between two curves - No graphs
<R> Area between two curves - With graphs
<R> Parameters calculation using definite integrals
<R> Find function by integration of its first derivative
<R> Find function by integration of its second derivative
<R> Volumes of revolution

Statistics

One-variable statistics: Ungrouped data
<R> One-variable statistics: Grouped data
<R> Two-variable statistics: Linear regression analysis

Probability

Probability I: Coins
<R> Probability II: Dice
<R> Probability III: Marbles
<R> Probability IV: Cards
<R> Normal distribution

◆ ***Note:***
<R> Denotes that option is only available in the registered version

Specifications

Description	***CMZ2 Worksheet Generator*** is a Windows software to create, save, load and print worksheets of Mathematics for educational purposes.
Maximum amount of problems in a worksheet	500
Maximum amount of problems of the same type	99
Maximum amount of pages in a worksheet	199
Amount of elements in an exercise or question	Minimum 2 Maximum 26 (or less)
First problem number	Between 1 and 1999
First page number	Between 1 and 1999
Positions of the problems answers	4 positions: - No answers - Answers after each problem - Answers together at the end - Answers in a separate page
Positions of the page number	11 positions *: - No page numbering (1) - Up, down (2) - Left, center, right, inside, outside (5) (*) 1 + 2 x 5 = 11
Highlight colors for problem number	22 colors

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