





$$(a+b)^n = \binom{n}{0} a^n b^0 + \binom{n}{1} a^{n-1} b^1 + \binom{n}{2} a^{n-2} b^2 + \dots + \binom{n}{n} a^0 b^n = (a+b)^n$$

$$= \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k$$

## ▷ About Amada

**A**MADA (Assessment of Math Knowledge Deficiencies of Adult Learners with Socio-economic Disadvantages) is a SOCRATES funded European project and will be first released in United Kingdom, Poland Ireland, Netherlands and Greece. AMADA aims to equip math adult educators with a systematic diagnostic methodology for assessing the level of quantitative skills of individuals. Based on this methodology, teachers will be able to customize the teaching process and implement specific programs in order to enhance the quantitative skills of socio-economically disadvantaged people targeted by the project methodology.

**AMADA started on the 1st of October 2005 and will end in 30th November 2007.**

## ▷ Project Objectives

- To offer a course addressed to math teachers and trainers enabling them to familiarise with a systematic diagnostic methodology and tools for assessing quantitative skills' deficiencies.
- To develop course materials such as 1000 rated original multiple-choice questions on numeric and math skills as supportive testing material to the above methodology.
- To develop innovative educational course and materials for math trainers of adults in Greece, Poland and Ireland with a view to disseminate its potential and results all over Europe.



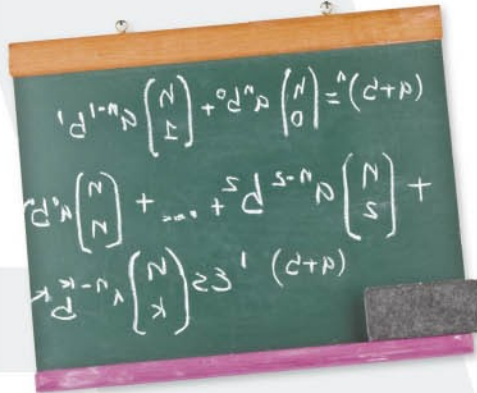
- To provide math teachers with specialized knowledge, skills and methodologies in order to adequately and effectively identify and address the needs and problems of socio-economically marginalized people in relation to quantitative literacy skills.
- To further address math teachers at a European level from all European countries by promoting the exploitation of the

project's envisaged outputs throughout Europe (part of this strategy is to offer the produced training courses as a Grudtvig 3 to math teachers Europe – wide).

- To help improve the quantitative / numeric skills of socio-economically disadvantaged / marginalized people and to enhance opportunities for those groups for personal and professional development due to improved skills and capabilities.
- To contribute to the Socrates priority for life-long learning in view of "Making a European Area of Lifelong Learning a Reality".

## ▷ Target population

- Teachers
- Adult trainers of mathematics
- Social workers and experts working with socio-economically disadvantaged / marginalized people.



## ▷ Products

- An evidence Analysis Report on the needs and views of the targeted audience – socio-economically disadvantaged people. The report, which will be based on a requirements capturing process will allow to draw valuable conclusions on needs that have to be assessed, methodologies that have to be developed and content that is required.
- A complete course - of 30 hours - for math teachers on identifying and diagnosing lack of quantitative skills of socio-economically disadvantaged / marginalized people. The course will include the development of materials such as:

- 1000 rated original multiple-choice questions on numeric and math skills. The questions will be the main tool for assessing the training requirements of socio-economically disadvantaged / marginalized people.
- A set of rules and methodology approach for forming standardised tests based on the developed questions. This set of rules will permit to compose randomly standardised tests with questions (given a number of restrictions like thematic balance, degree of difficulty, past occurrence, etc).
- A methodology for assessing the results of the tests and identifying specific deficiencies of quantitative skills of socio-economically disadvantaged people.
- Observation visits to be conducted along with the organization of the training courses, to adult educational institutions and organisations, where other training programs for socio-economically disadvantaged people take place.
- An awareness Booklet concerning the quantitative skills gap of socio-economically disadvantaged people.
- A web site for the promotion of the project.
- Press Releases, media kits, PowerPoint presentations, brochures, multimedia presentations, mailing list.
- A report with knowledge and recommendations on issues raised by the project regarding numerical illiteracy of socio-economically disadvantaged people.

