



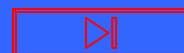
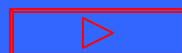
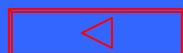
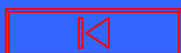
Matematica Senza Frontiere



**Představte si, vytvářet,
Yenilik yaratmak, hayal
ledomāties, izveidot, ieviest jauninājumus
[sivaizduoti, kurti, diegti inovācijas
Wyobraź sobie, tworzyć, wprowadzać innowacje
Imaginar, criar, inovar
Forestelle seg, skape, innovere
Voorstellen, creëren, innoveren
Imagine, create, innovate
Enfinden, entwickeln, erneuern
Immaginar, crear, innovar
Kuvittele, loi, innovoi
Immaginer, créer, innover
Immaginare, creare, innovare**

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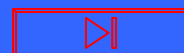
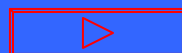
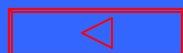
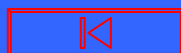
Un très beau souvenir des lieux

Derborence 2-3 juin 2001



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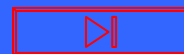
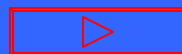
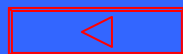
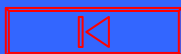


Un très beau souvenir de famille



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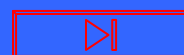
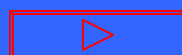
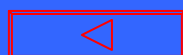
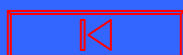


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.....*maintenant un autre famille, mais d'autrefois.....*

Un hommage italien à la Suisse



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Quelques informations tirées de l'histoire des mathématiques concernant la famille

Bernoulli



Petit aperçu par Franca Rossetti – Société italienne Histoire des Maths

Brescia 8-11/11/2012

**Nicolaus
senior
1623 - 1708**

**Jakob
1654 - 1705**

**Nicolaus (1)
1662 - 1716**

**Johann
1667 - 1748**

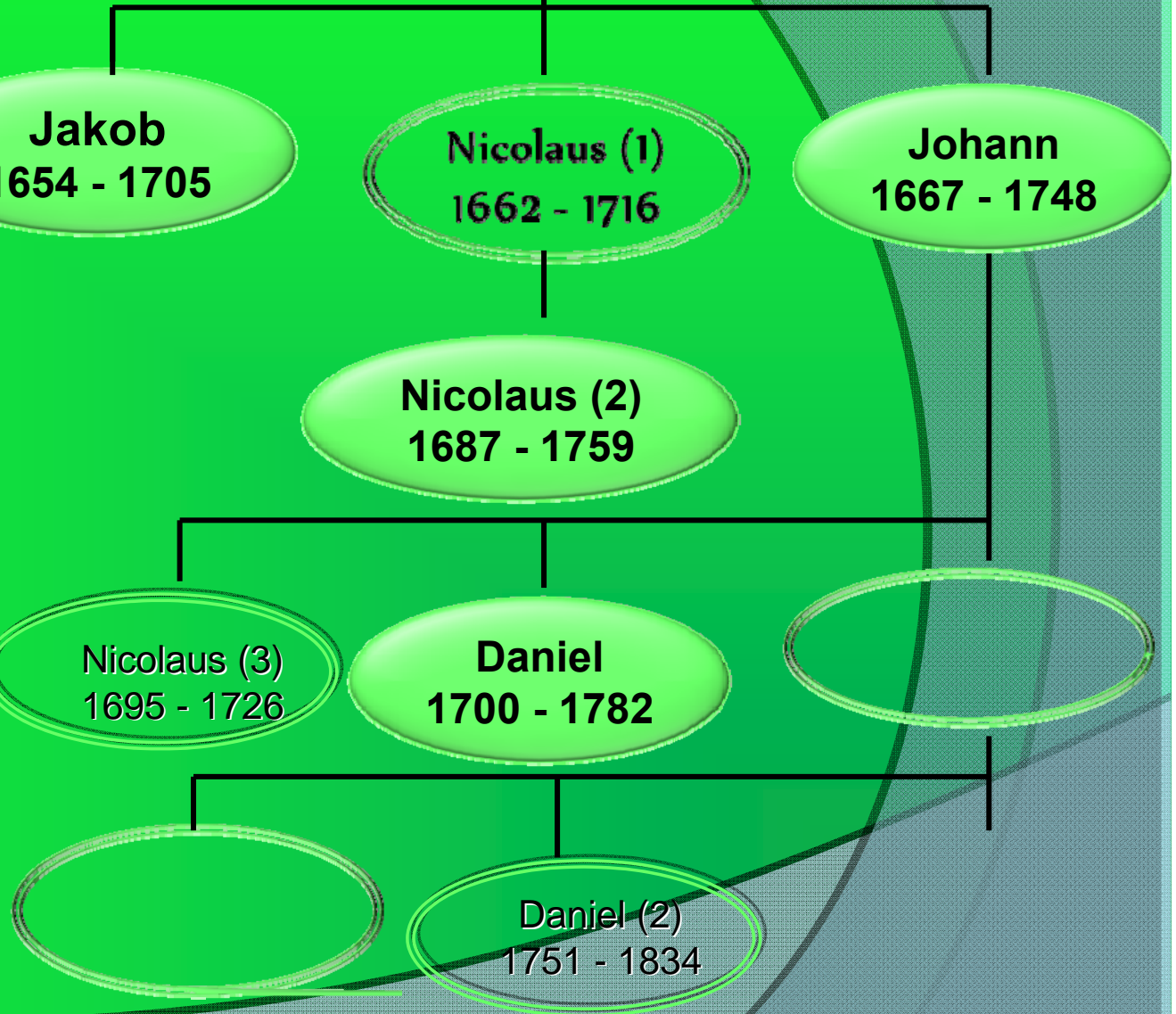
**Une famille de
mathématiciens**

**Nicolaus (2)
1687 - 1759**

**Nicolaus (3)
1695 - 1726**

**Daniel
1700 - 1782**

**Daniel (2)
1751 - 1834**

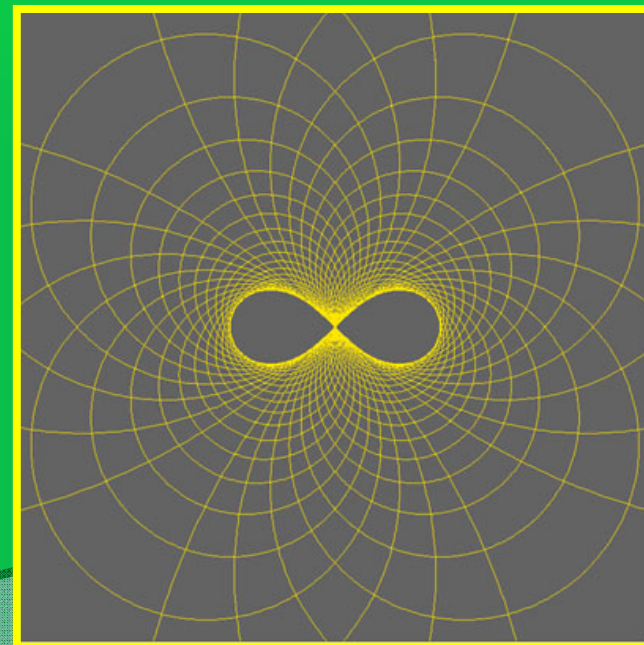




JAKOB (1654 -1705)

Un effet spectaculaire obtenu
grâce au compas

la lemniscate



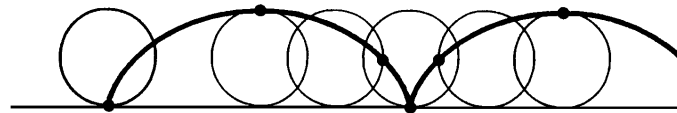


JOHANN (1667-1748)

Il a commencé à enseigner les mathématiques à l'Université de Goningen en 1695 et il a eu aussi la gloire de former **Leonhard Euler**.



la cycloïde



Johann découvrit les célèbres règles de l'Hôpital sur le calcul des limites des formes indéterminées.

Il parait que la découverte doive être attribuée à Bernoulli qui l'avait cédée au Marquis de l'Hôpital en échange d'une somme d'argent

Johann



De l'Hôpital

Nicolaus (2) (1687- 1759)

Fils de Nicolaus, il succéda
à l'Université de Padoue
à Jacob Hermann
à la chaire de physique.





Daniel (1700 -1782)

En 1733 Daniel, une fois rentré de Bâle, commença par collaborer avec Euler qui avait été l'élève de son père Johann.



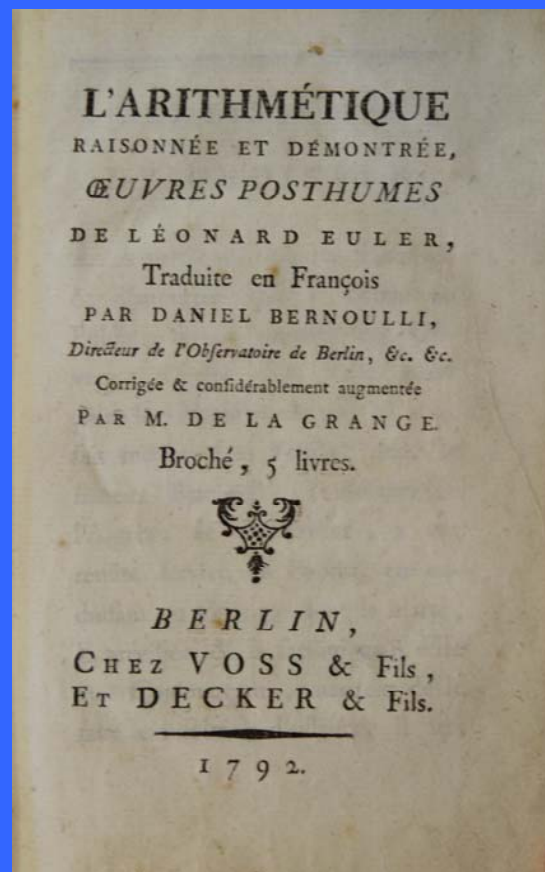
Eulero



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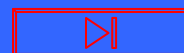
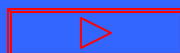
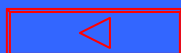
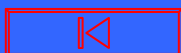


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Participation 2011 - 12

MsF junior

MsFj experimentation

(classes mixtes: 5 primaire + 1 secondaire)

469

MsFjter

3 secondaire
(age: 13-14)

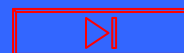
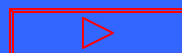
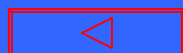
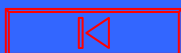
209

MsF

1 249

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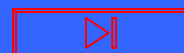
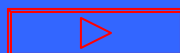
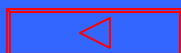
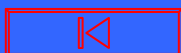


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Statistiques – MsF

*nous avons pensé
pour étudier la réussite des exercices
aux différentes possibilités de représentation:*



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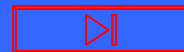
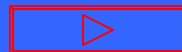
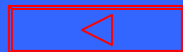
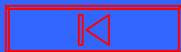


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histogramme



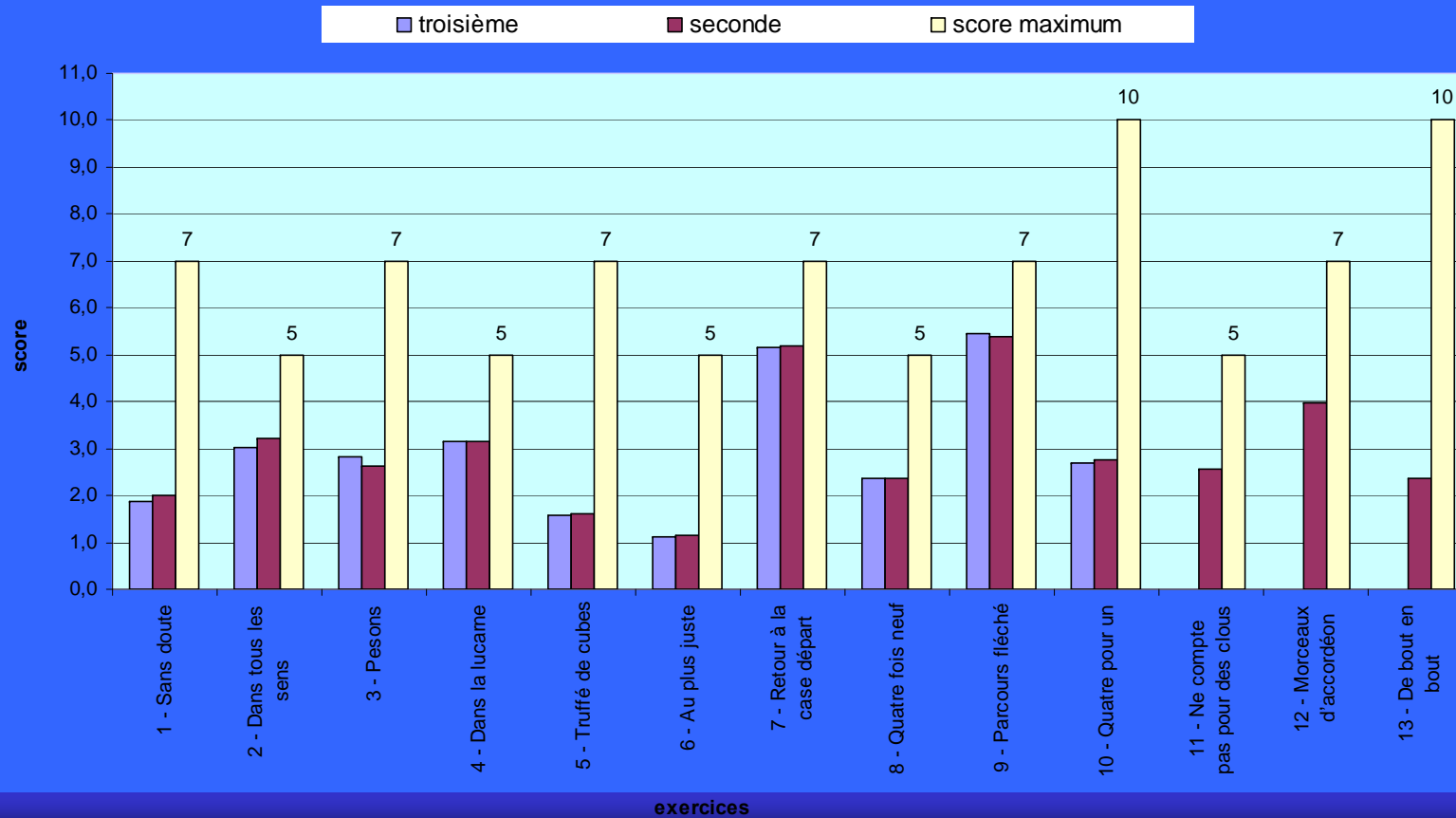
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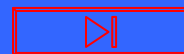
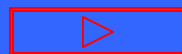
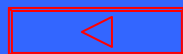
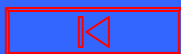
Statistiques - MsF

MsF 2011/2012 - Moyenne vs maximum



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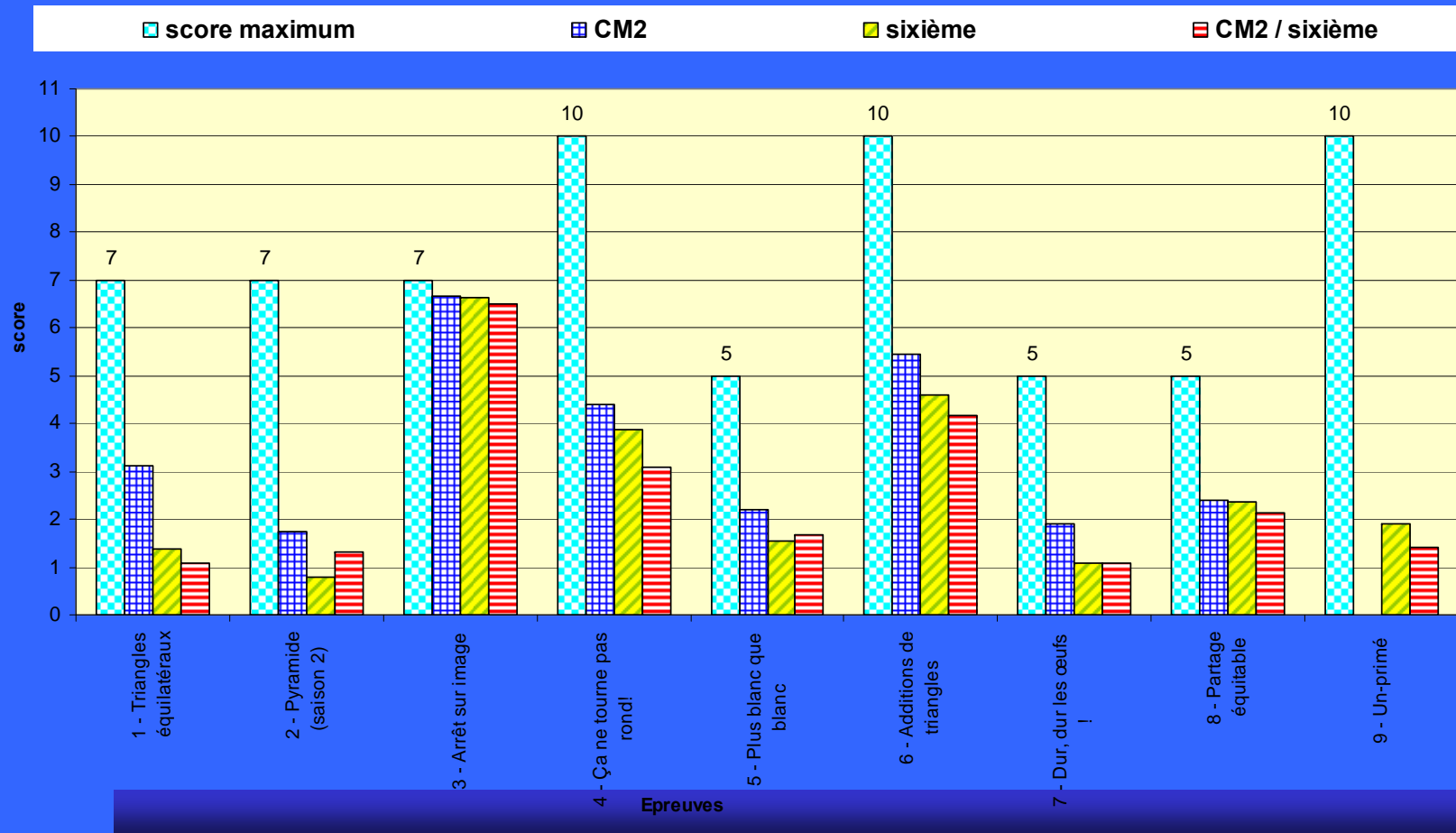


Matematica Senza Frontiere



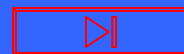
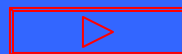
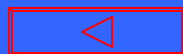
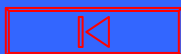
Statistiques - MsFj

MsFJ 2011/2012 Moyenne vs maximum



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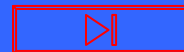
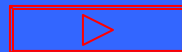
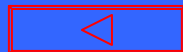
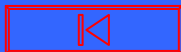


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Statistiques – MsF

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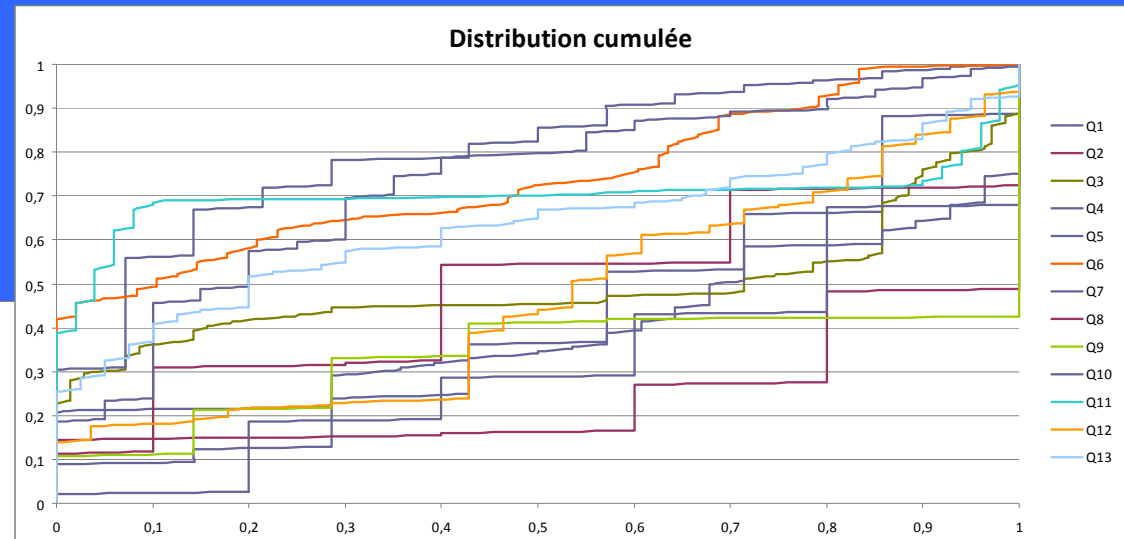


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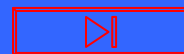
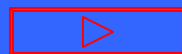
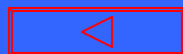
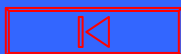
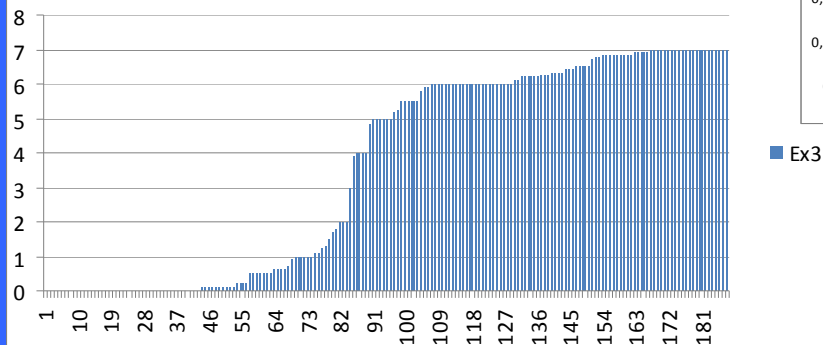
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Statistiques – MsF Romanie



Ex3



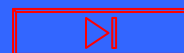
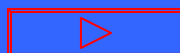
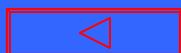
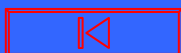


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Statistiques – MsF

boxplot

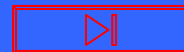
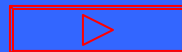
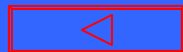
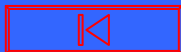
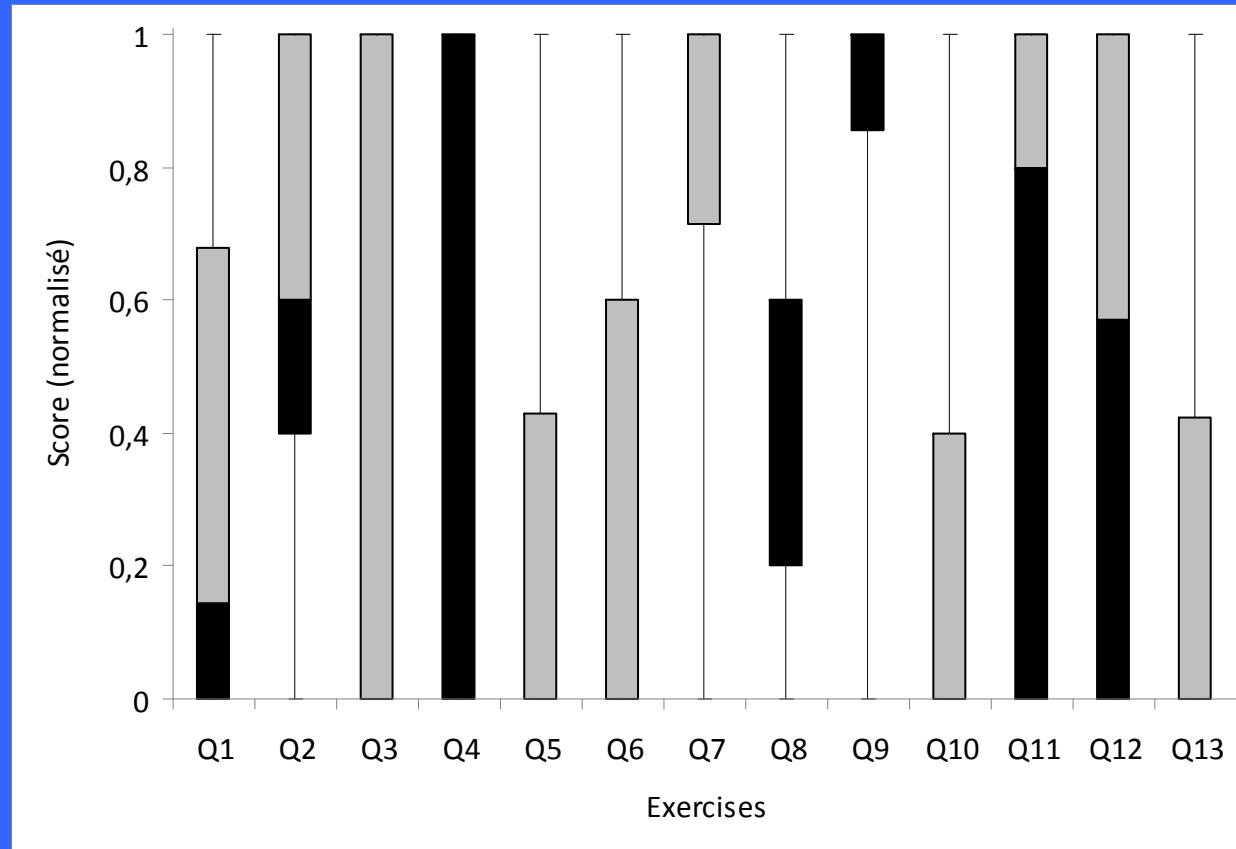


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Statistiques – MsF/2 Italie

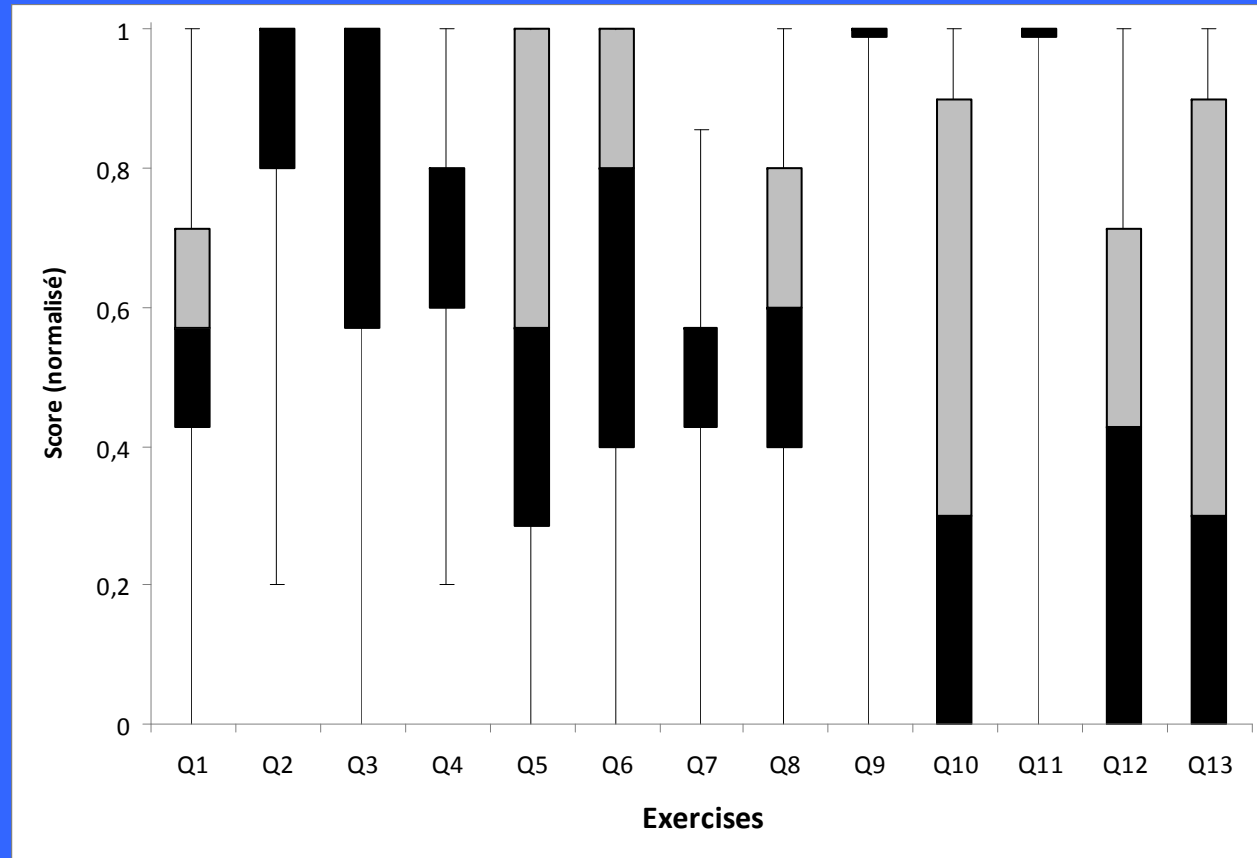




Matematica Senza Frontiere

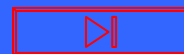
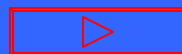
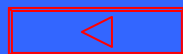
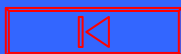


Statistiques – MsF/2 Ecosse



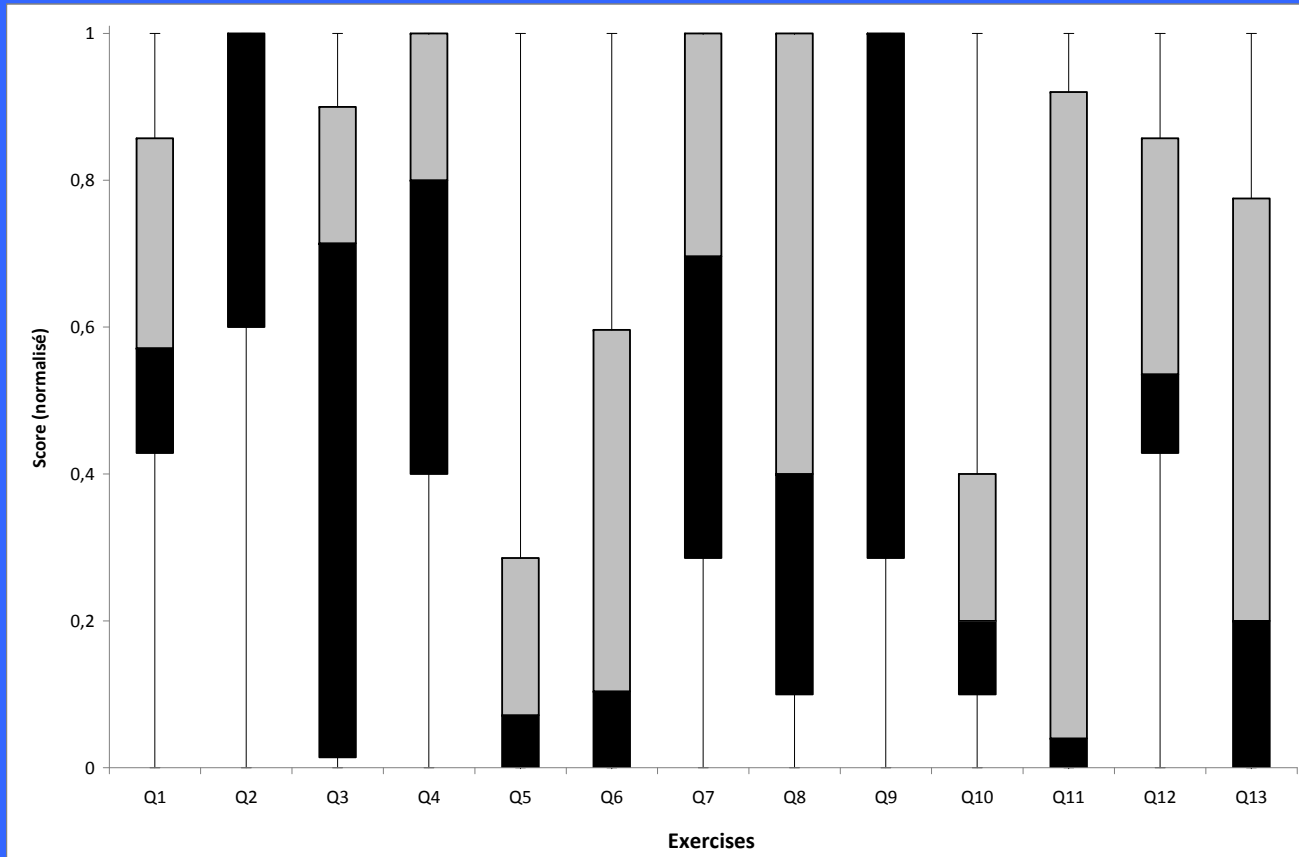
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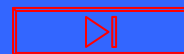
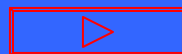
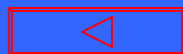
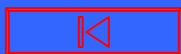


Statistiques – MsF Romanie



AnnaMaria Gilberti

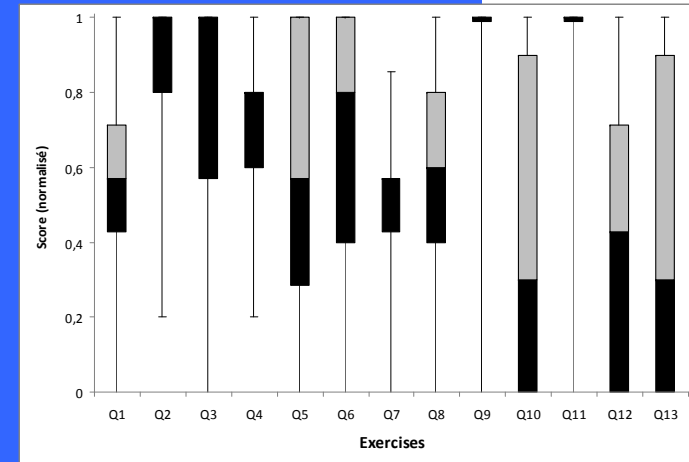
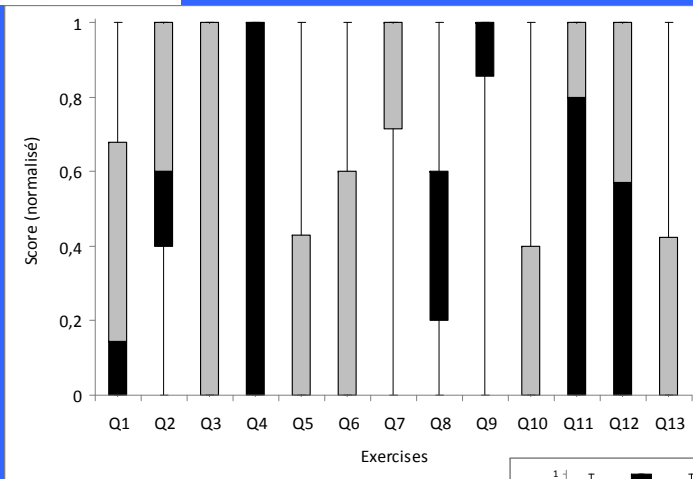
La Chaux-de-Fonds 27 mai 2012





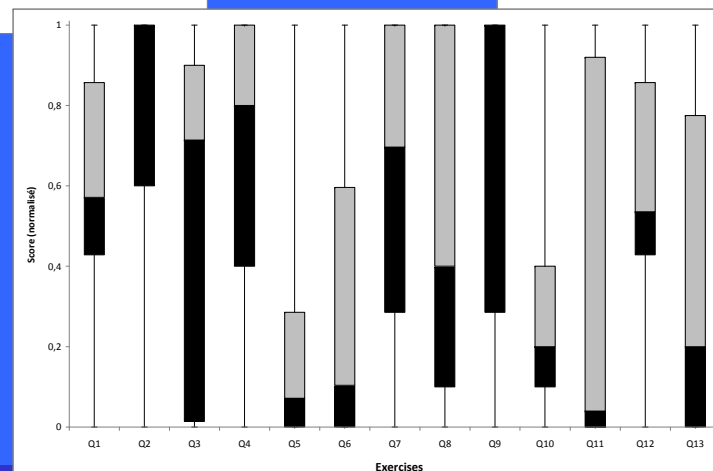
Statistiques – MsF/2

IT



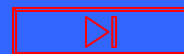
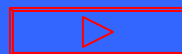
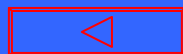
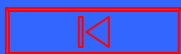
Ecosse

Romanie



AnnaMaria Gilberti

La Chaux-de-Fonds 27 mai 2012





Activités réalisées

❖ du programme Comenius 2009/11 à Comenius 2012 –14

Help Math

❖ la Communication « Imaginer, créer et innover »

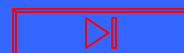
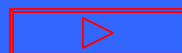
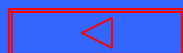
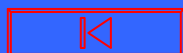
❖ l'enrichissement du site italien

❖ la contribution au Forum français

❖ la remise des prix avec une Conference introductive aux Jeux sur la Comunication multimediale dans l'histoire et une Table ronde gerée par le Comité avec les prof. sur la médiation entre la rigueur sc. et la comunication didactique

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Activités envisagées et proposées

- ❖ hypothèse de mémoire sur MsF :

MsF film . Clip

- ❖ recherche internationale pour vérifier si MsF produit apprentissage meilleur chez les élèves



quelle est votre pensée?

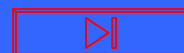
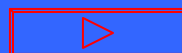
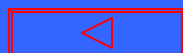
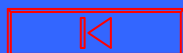
- ❖ comparaison des taux de réussite des épreuves



quelle est votre pensée?

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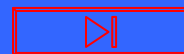
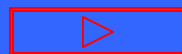
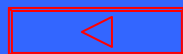
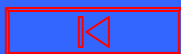




Activités envisagées et proposées

Les obligations:

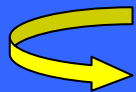
- partecipation par classes et non pas par groupe
- aplication libre du barrème sauf pour le maximum
- application pendant la correction d'un unique formulaire pour le recueil des commentaires
- communication du nombre des classes/élèves
- comunication (au moins 15 j avant l'A.I) des donnés/Ex
 - les Maximum
 - les zero (resultats nuls)
 - les non reponses
 - les moyennes
 - les moyennes (exclus les non reponses)





Activités envisagées et proposées

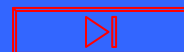
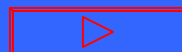
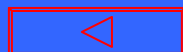
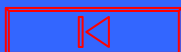
Il y a la disponibilité de



- o (Italie) produire les représentations des tous les donnés (Histogramme et boxplot) come exemplification (et aide) et à étudier la possibilité de représentation “superposée”
- o (France) produire l’ensemble des commentaires et le relatif resumé (bilan pedagogique)
- o (Italie) proposer entre un mois sur le site pour le débat un cadre de competences que l’on puisse utiliser dans les differents Pays comme referentiel “agi” par MsF dès la nouvelle literacy de PISA et la proposition de la Roumanie

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Activités envisagées et proposées

❖ 2015 - Expo à Milano



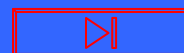
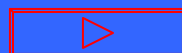
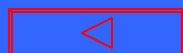
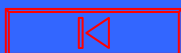
ou

2016 A I MsF Bergamo – Milano

quelle est votre pensée?

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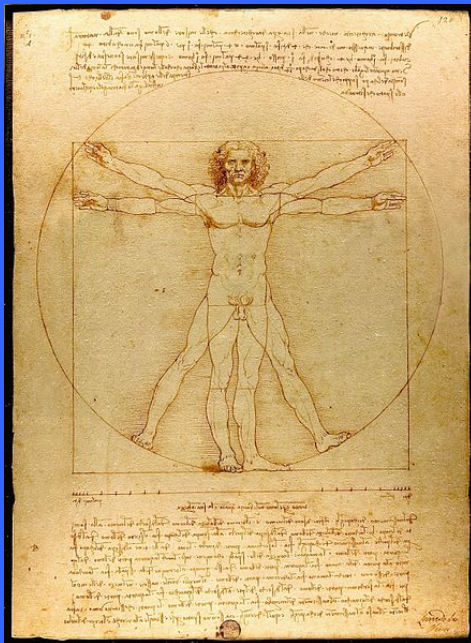




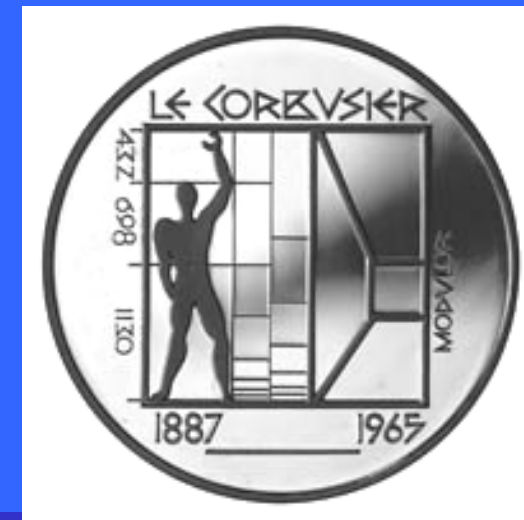
Matematica Senza Frontiere



Merci pour l'organisation de cette AI en Suisse



W toute la famille de MsF



AnnaMaria Gilberti

La Chaux-de-Fonds 27 mai 2012

