



Teacher's Manual

Understanding Math - Addition and Subtraction:
Learn to fluently add and subtract up to 100

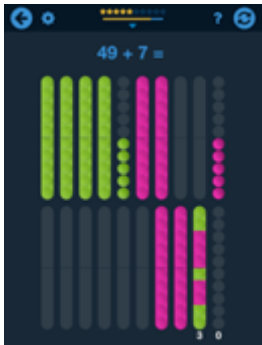


Understanding Math - Addition and Subtraction:

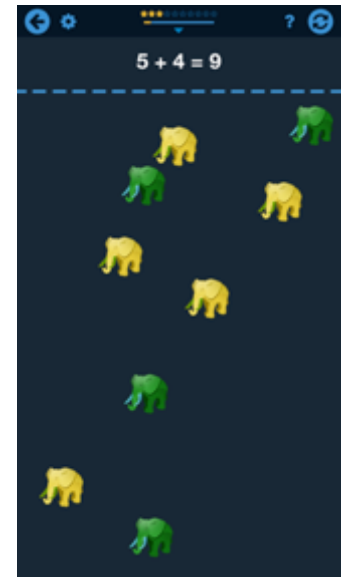
Learn to fluently add and subtract up to 100

•Based on **J. Bruner's Learning Theory** “Three Modes of Representation”

- Enactive representation (action-based) – Game 1, 2, 3
- Iconic representation (image-based) – Game 1, 2, 3, 4
- Symbolic representation (language / mathematical symbols-based) Game 4, Duel
- Plus the educational tool: create your own equation.



universal iOS app
aligned with the US Common Core Standards and many international curriculums
understand math by doing and exploring
learn by heart by repeating
show your knowledge
compete in the duel





Teacher's Manual:
**Understanding Math –
Addition and Subtraction**

The six activities

**ADDITION –
Tap with your fingers**

SUBTRACTION

DUEL (2 player mode)



ADDITION

TRAINING

**TOOLBOX –
(enter your own equation)**



Teacher's Manual: Understanding Math – Addition and Subtraction

Information on all games in 11 languages, determined by the language of your device)

Functions

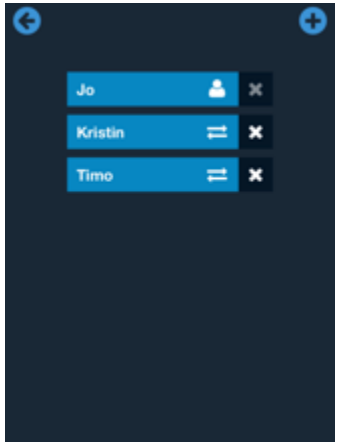
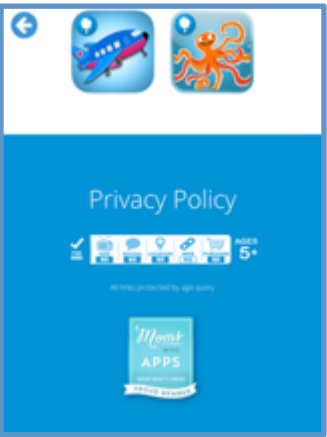


Sound on / off

Add unlimited users



Privacy Policy, link to teacher manual, link to our other apps.

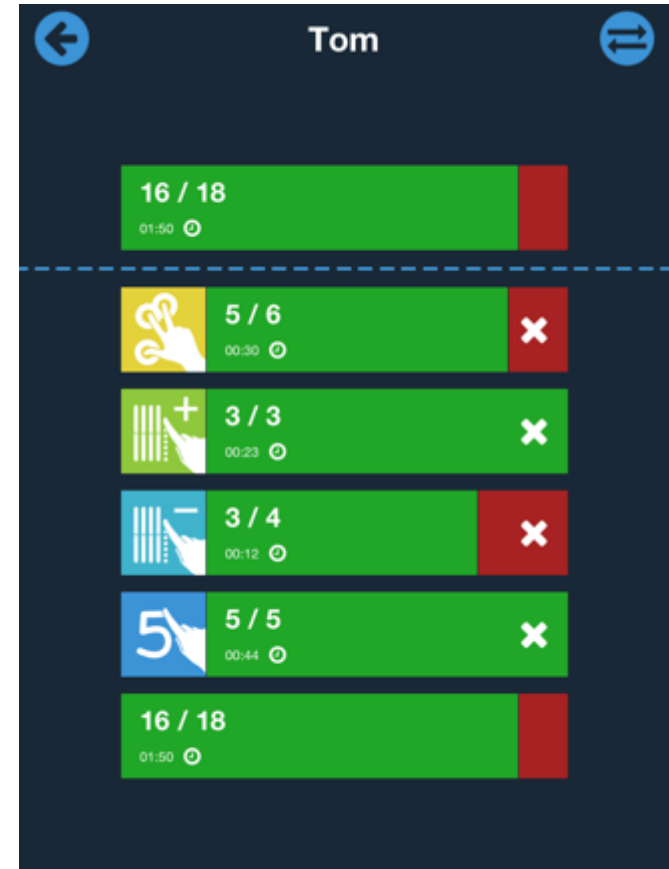




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Designed for use in schools

- VPP 50% discount enabled
- unlimited user profiles
- detailed reports
- individual settings possible
- two player game: duel
- no negative rating, only points for solved problems
- gameplay encourages to solve lots of problems
- 100% kids friendly and COPPA compliant: No ads, no social media, no tracking, links only to our other apps, all behind parental gates



Track student activity by quantity, quality and time.
See last achievements and total achievement.
Delete scores to track the activity in the next lesson.



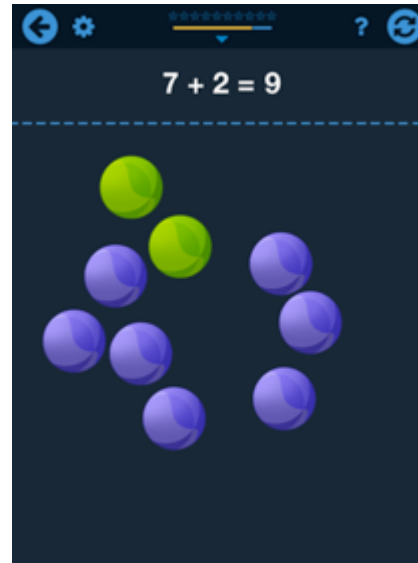
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ADDITION – TAP WITH YOUR FINGERS

Solve the problem by touching the display.

Example: $7+2=$

Tap with 7 fingers, then with 2. After solving the problem, you can pop the objects by touching them. Earn new objects by solving lots of equations!



Common Core Standard

Understand addition

ADDITION

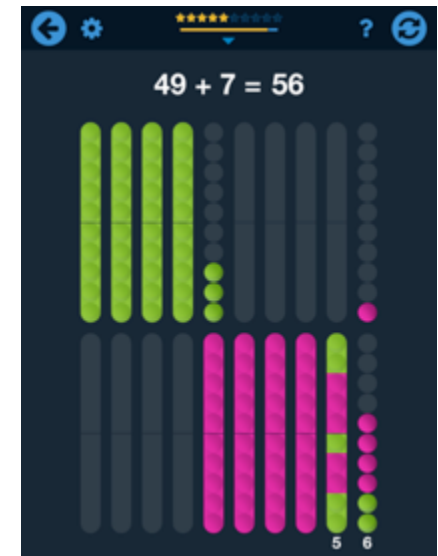
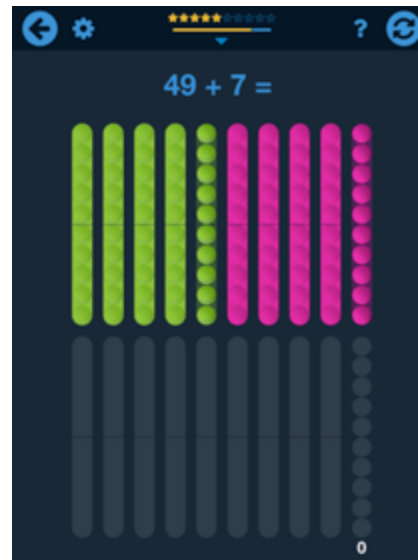
Drag down the correct amount of tens and ones. Example $49+7=$

Drag down 4 tens and 9 ones of one colour and 7 ones of the other colour. See and understand place value: ten "ones" make one "ten".

Please turn off your multitouch gesture in the settings of your device - as the multitouch gesture will close the app!

Common Core Standard

Understand addition





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SUBTRACTION

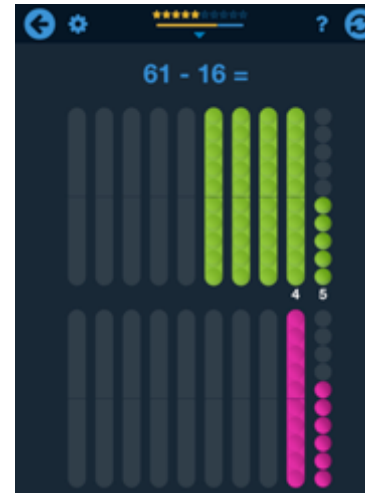
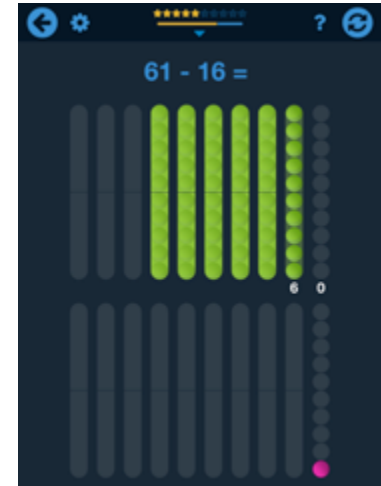
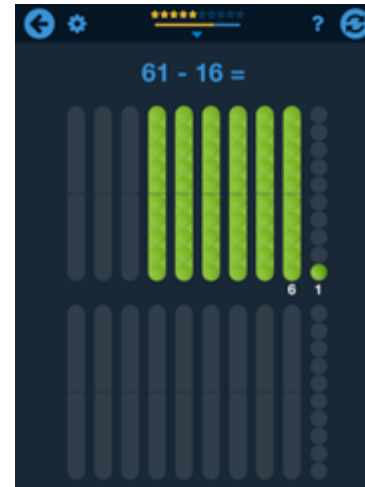
Drag down the correct amount of tens and ones. See and understand that ten is a bundle of ten ones.

See and understand the place value when taking one away from 10.

Common Core Standard

Understand place value

Understand subtraction



Watch the 1 „ten“
fall into 10 „ones“
See the place
value of 1 and 9,
when you take
one away from 10!

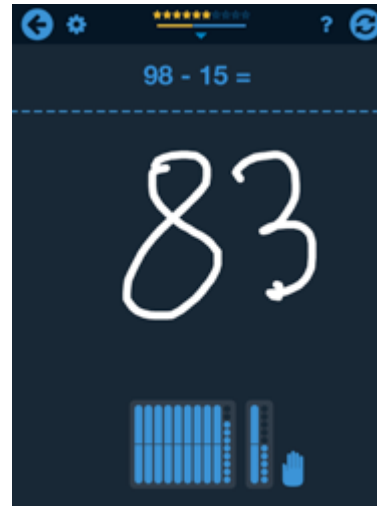


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TRAINING

Solve the problem by writing the solution onto the screen. Help is provided by the iconic representation of the numbers. Deactivate the help if you don't need it.

Common Core Standard Fluently add and subtract within 20 or 100 using mental strategies



DUEL

Two players compete against each other. Each player can choose his level of difficulty. Kids can play against their peers or against their parents.

Level 1: up to 20, addition only

Level 2: up to 20, addition subtraction

Level 3: to 100, addition only

Level 4: up to 100, addition subtraction

Tap the sun to start. The first to enter the correct solution will earn a star. Earning 5 stars wins the game. The results are not tracked in the scoreboard!

Common Core Standard Fluently add and subtract within 20 or 100 using mental strategies



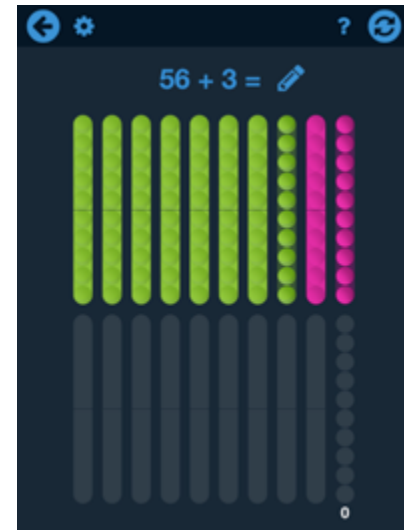
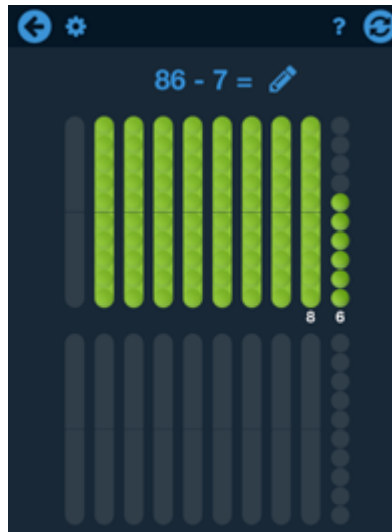


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Toolbox

Enter your own addition or subtraction equation.

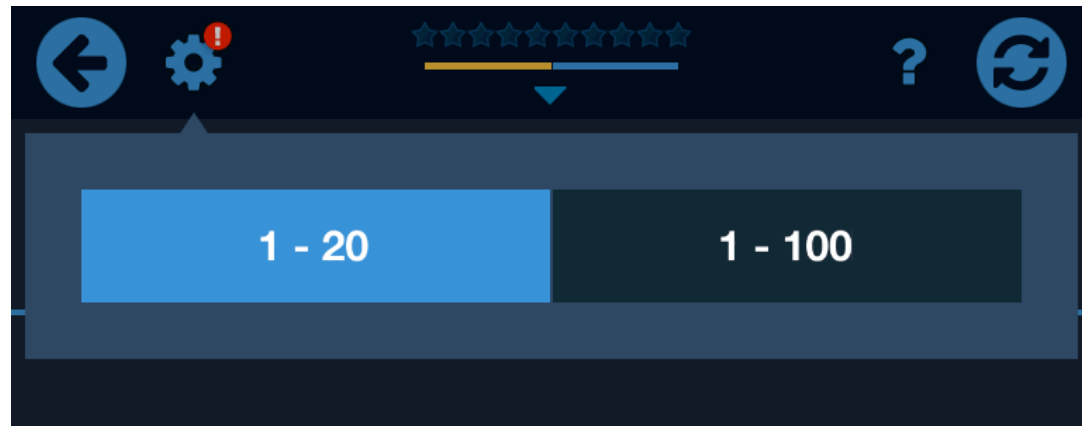
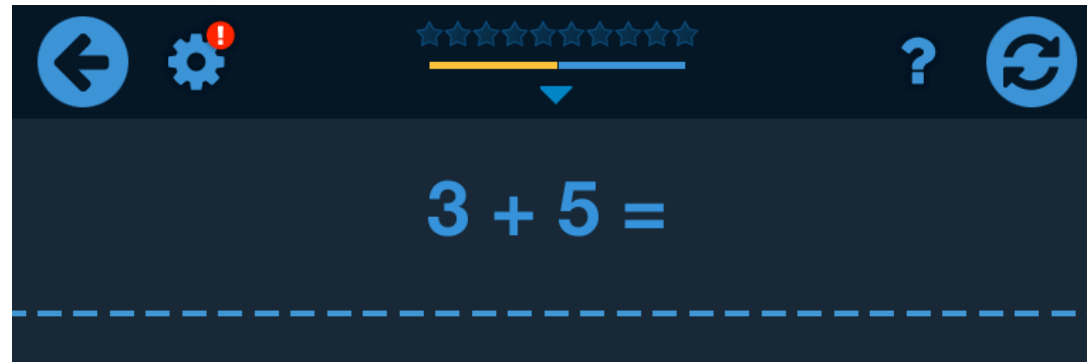
Explore the place value.





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Within 20 or within 100?

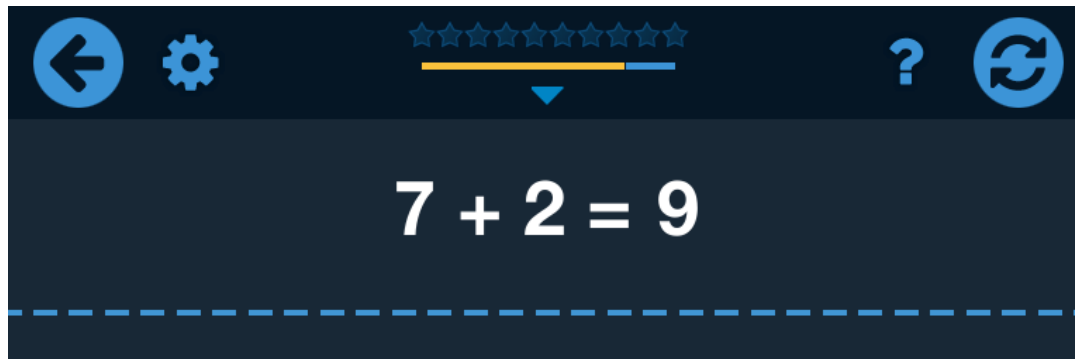
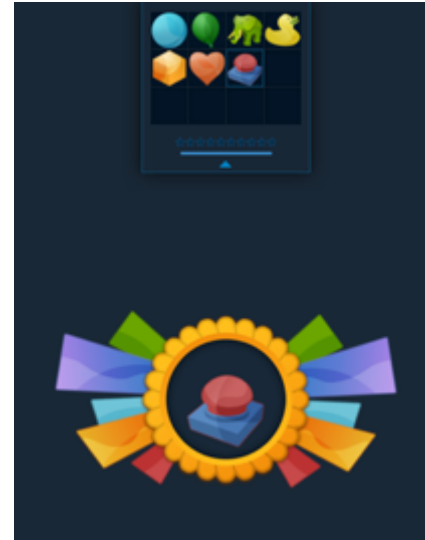




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NEW OBJECTS:

Correct answers -> yellow dot on the line
10 dots -> 1 star and a new object
If you collect all 12 objects you solved 120 equations!

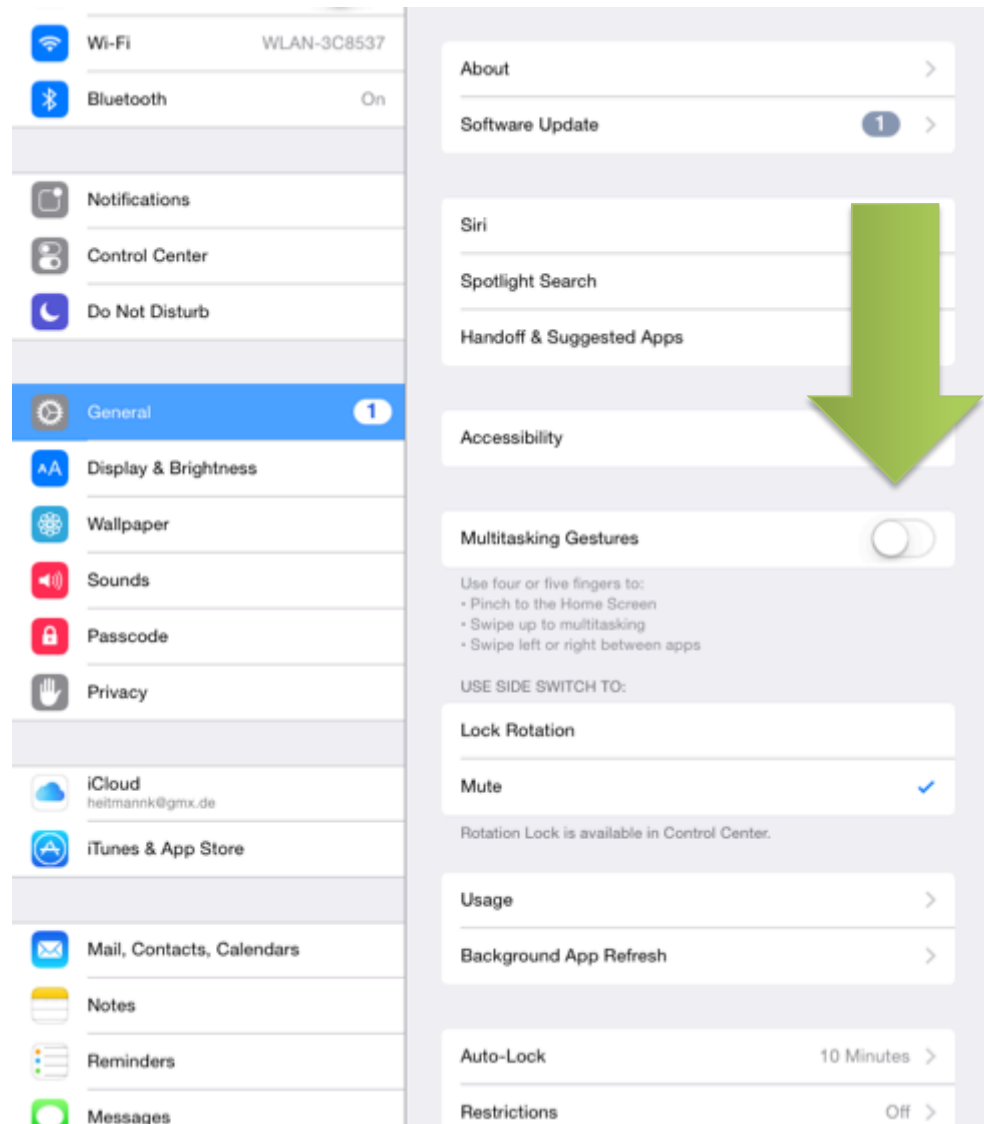




Teacher's Manual: Understanding Math – Addition and Subtraction

**Important settings for the Addition
Tap with your fingers:**

Please turn the Multitasking
Gestures to OFF on your device! If
you don't, the slightest pinch will
go to the Home Screen.



About appp media



Kristin Heitmann
Creative Director, Marketing

founder appp media

10 years + work experience as a primary school teacher in Bavaria / Germany

Author (educational film, school book)

Mother of 4



Jan Massberg
Programming, Animation, Screendesign

15 years+ work experience programming

Father of 1



Awards



Bestes Kinderspiel 2013



Das Beste Kinderspiel

2012 & 2014

www.appmedia.com

2014



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Mathe Verstehen
- Das kleine...
Bildung

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iPad Apps

Bestseller



Meine 1. App



Meine 1. App



Meine 1. App



Mathe Verstehen



Professor Kim

- iOS exclusive
- paid
- worldwide on sale
- localized to 13 languages
- COPPA compliant

My First App – Vol. 1 Vehicles

My First App – Vol. 2 Circus

My First App – Vol. 3 Airport

Professor Kim – What's missing here?

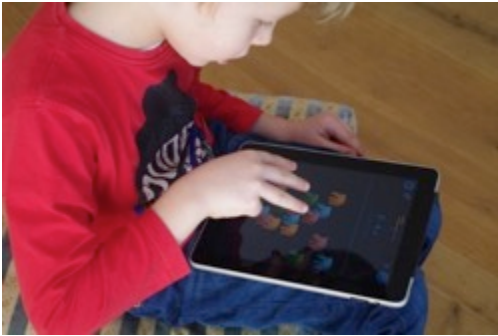
Understanding Math – Times Tables

coming:

Understanding Math – 1 Million

Understanding Math – Time and the clock

Happy to connect:



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