

Partial Quotients Division 1.1 Math App for iPhone and iPod touch

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Independent developer Esa Helttula today is pleased to introduce Partial Quotients Division 1.1, the 17th of his math instruction apps for the iPhone, iPod touch, and iPad. The Partial Quotients Division math app can be used to teach and study the partial quotients division method. The app is easy to use and it has an intuitive interactive interface with customizable colors and other settings. The user can solve random and custom division problems.

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Part of a Set of 17 Math Apps

Wired called them "A Set of Excellent iPhone Math Apps for the Older Child". All 17 math apps by Esa Helttula are used by schools worldwide.

Z. R. Prowell, Highlands Elementary, Edina, Minnesota, USA: " There are students who see my examples who still need some guidance, and after using the app have said, "Now I get it." The feature of selecting possible solutions in each step helps some of my students who are still building their multiplication facts. They can gain experience in using these new concepts but not be left behind. Helping student understanding are the animations. They are smooth and really illustrate a step-by-step understanding of how to complete new styles of multiplication."

R. Zeni, Ecole Sandy Hill Elementary, Abbotsford, BC, Canada: "The math apps by Esa Helttula allow students to practice and reinforce the specific computation strategies taught in class, with as much or as little scaffolding as necessary. They also provide individualized feedback to each student, with an immediacy that is not always possible through pencil and paper practice. Being able to adjust the level of difficulty to suit their needs is also very motivating for the students. I am so glad to have come across this great educational tool!"

The Partial Quotients Division Method:

The traditional long division method can be difficult to understand because it is so abstract. In the partial quotients method the student can make a series of estimates and then add the estimated quotients together.

In the example $992/8$ the first estimation can be 100, which leaves 192. Next estimation can be 20, which leaves 32. Now the student knows that 8 goes 4 times into 32 and the result can be found by adding up the partial quotients 100, 20 and 4. Each student can use the quotients that he or she finds the easiest.

In the Everyday Mathematics curriculum the partial quotients division method is the focus algorithm for division.

The App is Easy to Use:

After the user solves each operation or inputs a new estimate, the correct answer will fly to the right place. If the user presses the wrong button or gives an impossible estimate the answer will appear above the keyboard but it will not move.

Feature Highlights:

- * The dividend can have from 2 to 5 digits
- * The divisor can have 1 or 2 digits
- * Random and custom problems
- * The current operation can be hidden
- * The operands of the current operation can be highlighted
- * Colors of the interface can be changed
- * The speed of the animations can be set

"At the moment new features and new apps are based on feedback by teachers and parents using my apps." commented Esa Helttula. "The Partial Quotients Division app was developed in close collaboration with a teacher who needed the app in her class." "The best reward for me is reading emails from teachers telling how my apps have helped them to teach, and emails from parents telling how my apps have made a difference." said Esa Helttula.

Device Requirements:

- * iPhone, iPod touch, or iPad
- * iPhone OS 3.0 or later
- * 0.6 MB

Pricing and Availability:

Partial Quotients 1.1 is only \$3.99 (USD) and available worldwide exclusively through the App Store in the Education category. Review copies are available upon request.

Partial Quotients Division 1.1:

<http://www.idevbooks.com/apps/quotients.php>

Purchase and Download:

<http://itunes.apple.com/us/app/partial-quotients-division/id351024352?mt=8>

YouTube Video:

<http://www.youtube.com/watch?v=rn1aEff3kjM&>

Teacher Endorsements and Classroom Pictures:

<http://www.idevbooks.com/apps/endorsements.php>

Esa Helttula is an independent developer located in Espoo, Finland. He specializes in apps for the iPhone OS that help teach math skills. He is formerly an algorithm visualization researcher at the university of Tampere in Finland. Unable to find a suitable app to help teach his daughter addition, he created his first iPhone app, Column Addition. Fraction Math marks his fourteenth iPhone app. Copyright (C) 2011 Esa Helttula. All Rights Reserved. Apple, the Apple logo, iPhone and iPod are registered trademarks of Apple Inc. in the U.S. and/or other countries.

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