

Odyssey Math + Math Facts

Changed to



Math Fact Fluency & Odyssey
Math

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Agenda

- What are the expectations for fluency for math fluency?
- What is fluency?
- How do we achieve fluency?
- What does it look like in the classroom?
- Overview of Odyssey Math

Priorities in Mathematics

Grade	Priorities in Support of Rich Instruction and Expectations of Fluency and Conceptual Understanding
K–2	Addition and subtraction, measurement using whole number quantities
3–5	Multiplication and division of whole numbers and fractions
6	Ratios and proportional reasoning; early expressions and equations
7	Ratios and proportional reasoning; arithmetic of rational numbers
8	Linear algebra

What facts do students need to know?

Grade	Standard	Required Fluency
K	K.OA.5	Add/subtract up to 5
1	1.OA.6	Add/subtract up to 10
2	2.OA.2 2.NBT.5	Add/subtract up to 20 (know single-digit sums from memory) Add/subtract up to 100
3	3.OA.7 3.NBT.2	Multiply/divide up to 100 (know single-digit products from memory) Add/subtract up to 1000
4	4.NBT.4	Add/subtract up to 1,000,000
5	5.NBT.5	Multi-digit multiplication
6	6.NS.2,3	Multi-digit division Multi-digit decimal operations

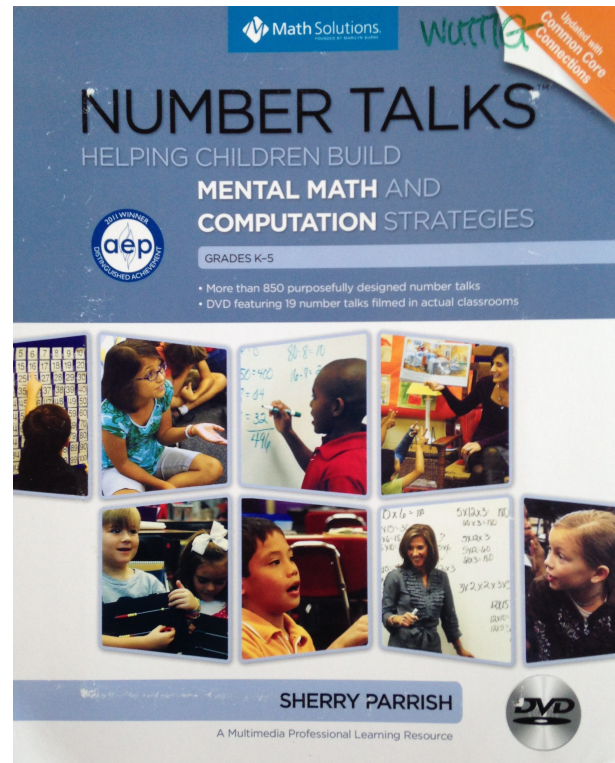
What is fluency?

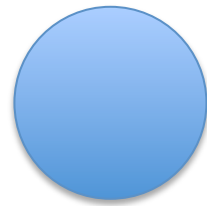
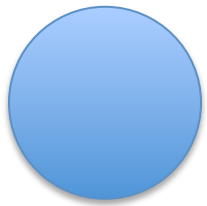
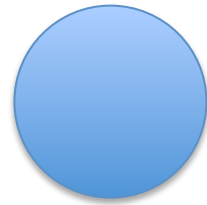
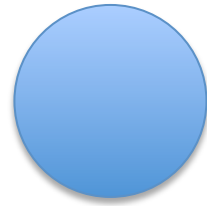
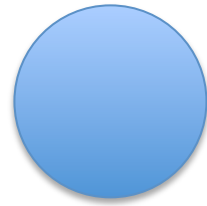
- Read the article
- + = identify one thing that you agree with
- - = identify one thing you disagree with
- ? = one question that you have

Relevant Research about Math Facts



How do we increase number sense?





$$32 \times 15$$

Odyssey Math

- New Format
- <http://odyssey.k12northstar.org/clologin.aspx>
- Change of schools = need to be changed in Odyssey
- Odyssey Math trainer will be coming October 20-24 and again in November – provides onsite coaching

Contact

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Resources from this presentation will be at:
wuttig.weebly.com