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#### Why encourage classroom discussion?



## My students are talking—now what?

We will explore teaching practices that enable primary students to

participate in productive mathematic discussions

while encouraging students to build collective understanding of content.

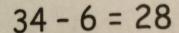
#### It takes one to know one...

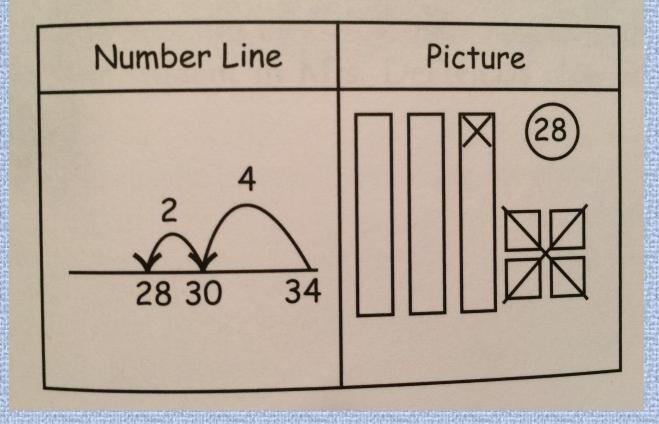


Time to think like a 2<sup>nd</sup> grader!

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### What actual 2<sup>nd</sup> graders have to say...





 What is the teacher doing to promote a productive math discussion?

 What are the students doing to promote a productive math discussion?

#### **Talk Moves**

- **♦**Re-voicing
- **♦**Repeating
- **♦**Reasoning
- **♦Adding-On**
- **♦**Waiting
- **♦ Turn and Talk**



### Orchestrating Productive Discourse

- Anticipating likely student responses to challenging mathematical tasks
- Monitoring students' responses to the tasks (while students work on tasks in pairs or small group)
- Selecting particular students to present their mathematical work during the whole class discussion
- Sequencing the student responses that will be displayed in a specific order
- Connecting different students' responses and connecting the responses of key mathematical ideas

#### **NCTM Research Brief:**

#### **Strategies for Facilitating Productive Classroom Discussions**

- Attend to the classroom culture
- Choose high-level mathematics tasks
- Anticipate strategies that students might use to solve the tasks and monitor their work
- Allow student thinking to shape discussions
- Examine and plan questions
- Be strategic about "telling" new information
- Explore incorrect solutions
- **Select** and **sequence** the ideas to be shared in the discussion
- Use Teacher Discourse Moves to move the mathematics forward
- Draw connections and summarize the discussion

Teacher	Strategies for Productive Classroom Discussions	Students	
	Classroom Culture		
	Tasks		
	Strategies		
	Thinking		
	Questions		
	"Telling"		
	<b>Incorrect Solutions</b>		
	Select & Sequence		
	Discourse Moves		
	Connections		

## Books Worth Looking Into...

