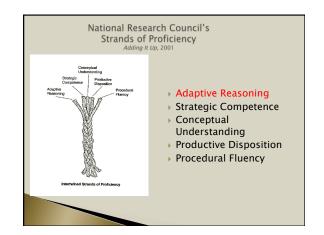




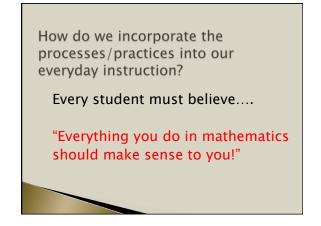
How do the processes impact instruction?





NCTM Process Standards and the CCSS Mathematical Practice Standards

NCTM Process Standards	CCSS Mathematical Practices
Problem Solving	 Make sense of problems and persevere in solving them. Use appropriate tools strategically
Reasoning and Proof	 Reason abstractly and quantitatively. Critique the reasoning of others. Look for and express regularity in repeated reasoning
Communication	Construct viable arguments
Connections	Attend to precision.Look for and make use of structure
Representations	Model with mathematics.

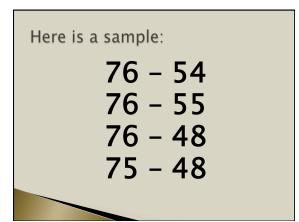


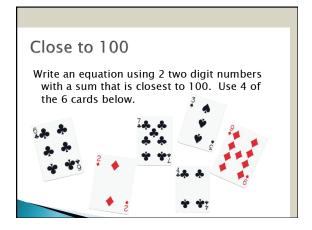
Number Talk

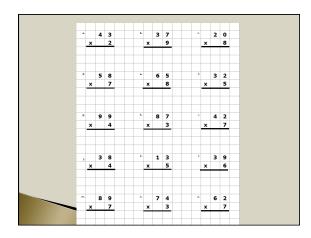
- A Number Talk is a short, ongoing daily routine that provides students with meaningful ongoing practice with computation
- helping students develop computational fluency
 the expectation is that they will use number relationships and the structures of numbers as well as reasoning and sense making to develop a deeper understanding of mathematical ideas

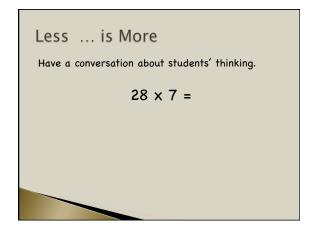
The Goal of Number Talks

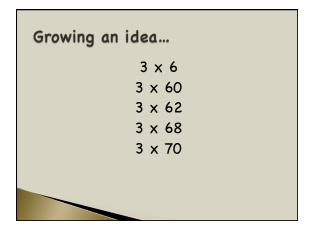
- Develop conceptual understanding and computational fluency.
- Student think and reason like mathematicians.
- Students make connections and look for relationships
- Student share their strategies, learning to clarify and express their thinking which leads to developing mathematical language.

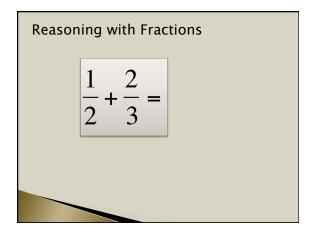


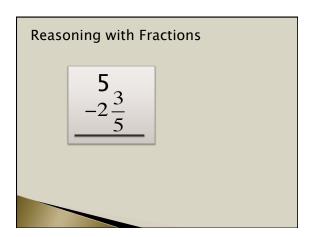


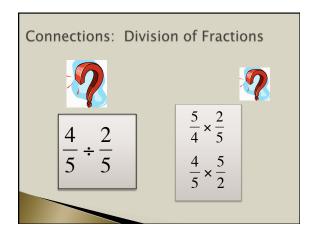


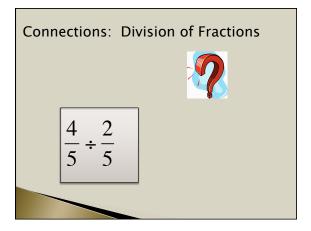












Making Connections		
7.836 X 4.92 = 3855312		
534.6 X 0.545 = 291357		
51.1875 ÷ 1.05 = 4875		
3.75 ÷ .05 = 750		
	20	

Deal or No Deal

Marty offers his parents a new deal for his allowance. Rather than getting \$5 a week, he suggests they give him 1¢ for the first day, 2¢ for the second day, 4¢ for the third day and so on for the entire month of February. Should Marty's parents accept his deal?

