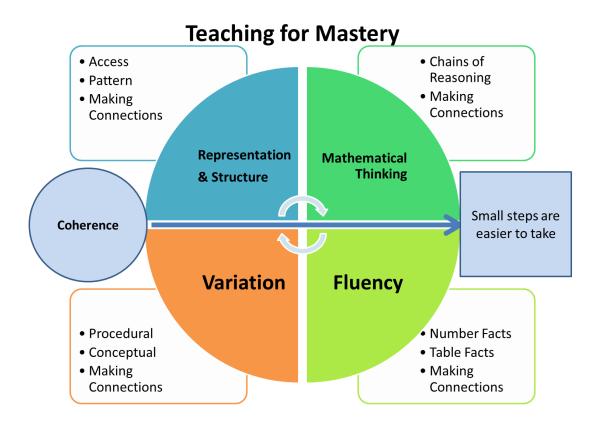


Teaching for Mastery: Fluency



Key Messages

- 1. Fluency demands more of students than memorisation of a single procedure or collection of facts. It encompasses a mixture of efficiency, accuracy and flexibility.
- 2. Quick and efficient recall of facts and procedures is important in order for students to keep track of sub-problems, think strategically and solve problems.
- 3. Fluency also demands the flexibility to move between different contexts and representations of mathematics, to recognise relationships and make connections, and to make appropriate choices from a whole toolkit of methods, strategies and approaches.



Calculate

Calculate 23 \times 17

	2	3				
×	1	7	×	20	3	
2	3	0	10	200	30	230
1	6	<u>1</u>	7	140	21	161
3	9	<u>1</u>				391

What's the same and what's different?