

Welcome to BBILY Mathematics workshop #2

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Agenda

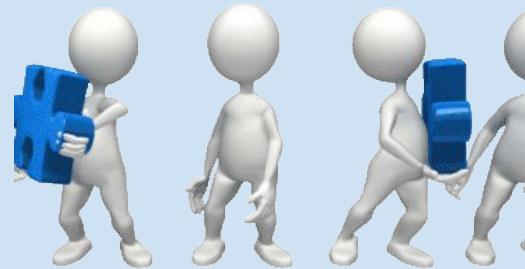
- Homework- Sharing of Workshop #1 Tasks with your child(ren)
- Introduction to Mathematical Proficiency
- Mathematics Tasks that Promote Mathematical Proficiency
- More Fun Mathematics Games to Help Support a Strong Numeracy Foundation for Children
- Homework for Workshop #3



Homework Sharing

What would you like to share with the group?

- Ways you are supporting your child(ren) with their math homework?
- Tasks you did with your child(ren) that showcases the mathematics tasks/activities that takes place in your home & community?
- Numeracy games your shared with your child(ren) from Workshop 1?

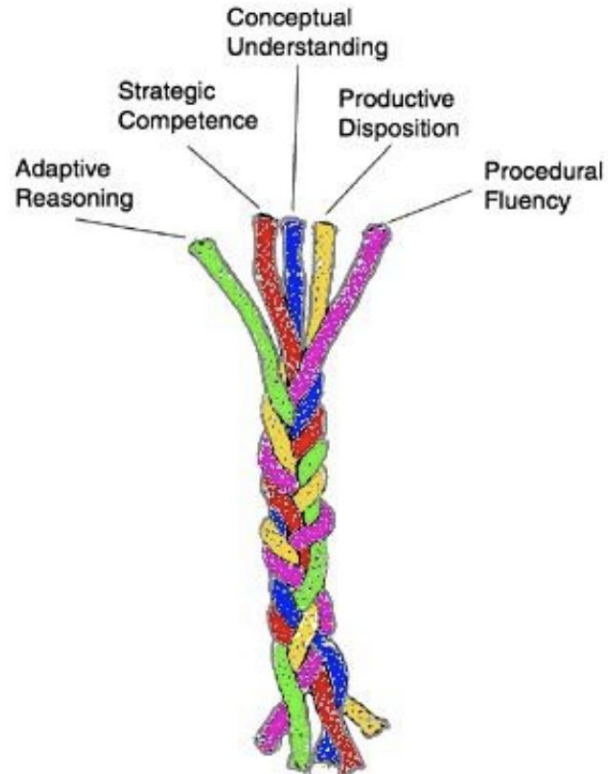


Math talk

Which one does not belong?

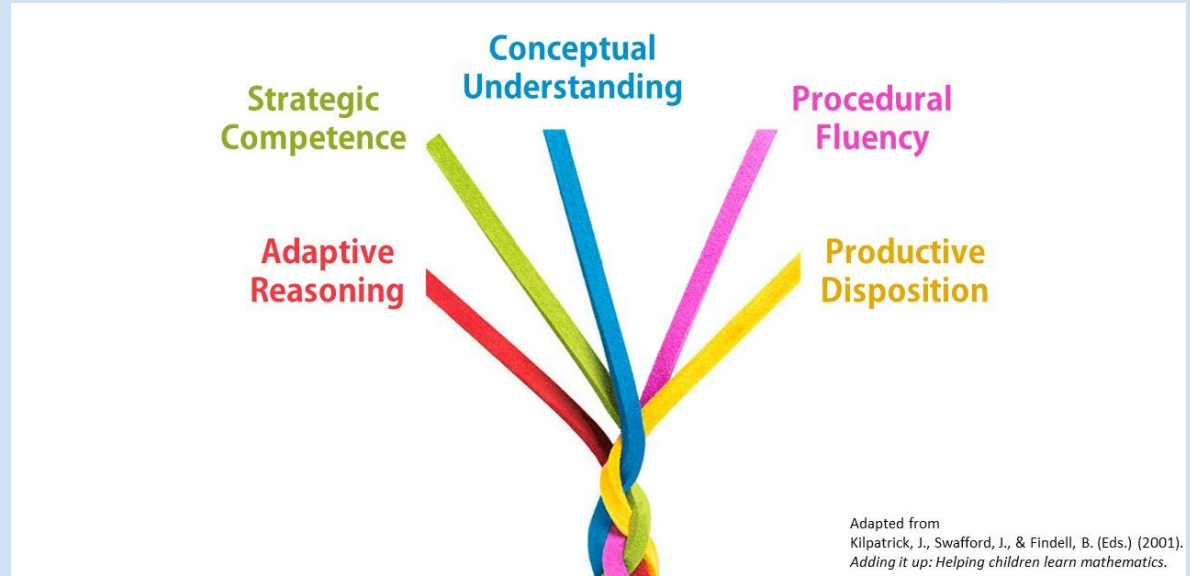
9	16
25	43

Introduction to Mathematical Proficiency



Five different strands ...

Let's look at what each one means as we work on a math problem



$$12 \times 9$$

Mathematical proficiency:

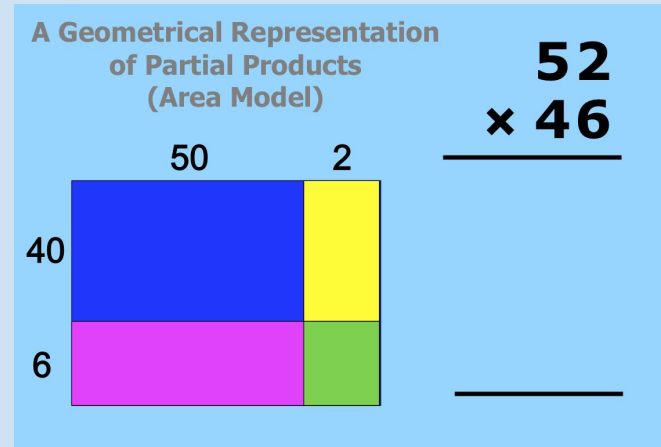
Procedural fluency

- Knowledge of when and how to use procedures appropriately and the ability to perform flexibly, accurately, and efficiently.



Mathematical proficiency: Strategic ability

- Ability to formulate mathematical problems, represent them, and solve them.



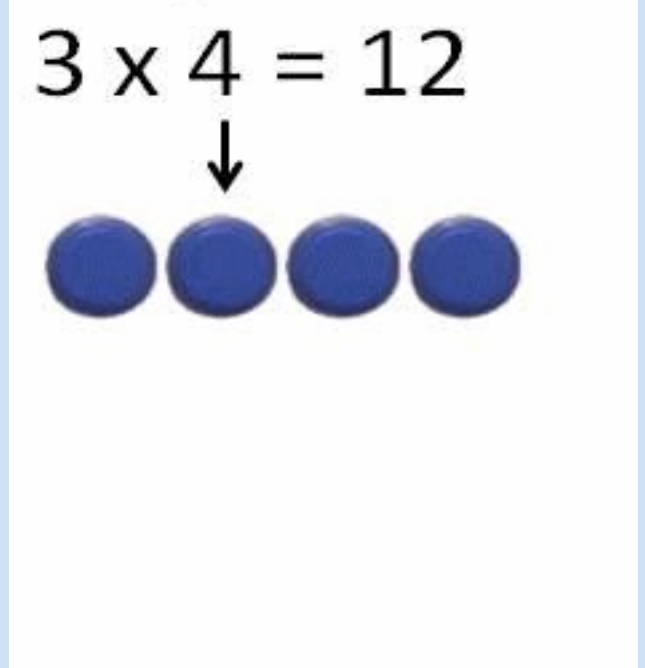
Mathematical proficiency: Adaptive reasoning

- The ability to think logically about the relationships between concepts and situations.



Mathematical proficiency: Conceptual understanding

- An integrated and functional understanding of mathematical ideas. It goes beyond knowing isolated facts and reasons.



Mathematical proficiency: Productive disposition

- A tendency to give meaning to mathematics, to perceive it as useful and valuable, to believe that constant effort in learning mathematics is worthwhile, and to see oneself as an effective learner and practitioner of mathematics.



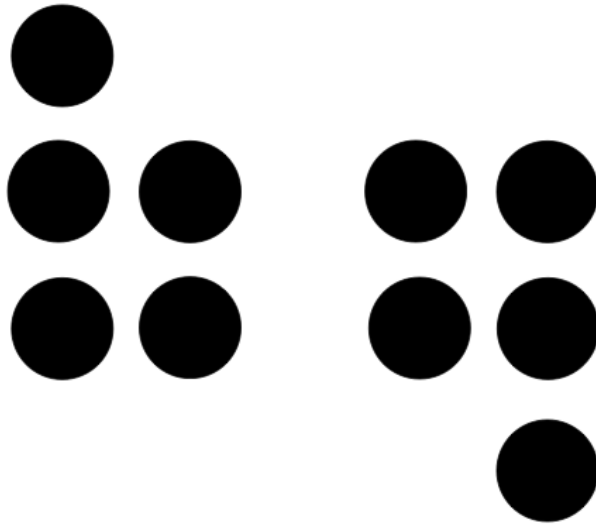
Breal

**Please take a 5 minute
break.**

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click on
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to start
timer



Math Talk



Discussion of the talk

- Discuss with partner:
- What math skills did you use to justify your reasoning?



Math time!

- Work with a partner to solve the problems written on the worksheet you received using at least two different strategies. Please show all your work.
- Be prepared to share your strategies with the group.



Sharing their experience of solving math problems

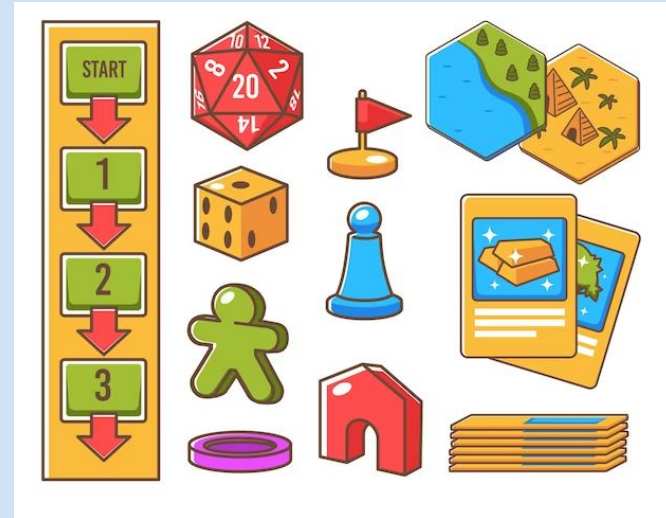
- What math skills did you use to solve the problems?
- What did you notice about the different types of math problems you solve?
- What role did language play in solving the tasks?



Games

In pairs, play two of the following tasks together:

- Math cards
- How to close to one hundred



Thank you for your participation!



GRACIAS

- We hope to see you all at our Workshop #3
- Remember that MATH IS FUN and that we can ALL learn math!