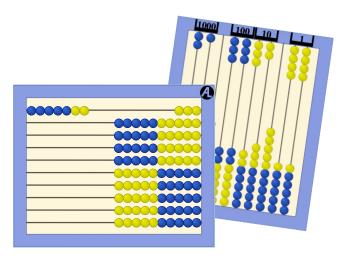
Multiplication without Flashcards or Timed Tests? Thanks, RightStart!



info@RightStartMath.com

Multiplication and Division

- Multiplication and division is often the mathematical downfall for so many children.
- Attempts have been made to solve this by focusing on sheer memorization.
- They struggle to apply the knowledge to new situations and are frequently overwhelmed.
- This results in frustration, confusion, and an aversion to math.

Multiplication and Division

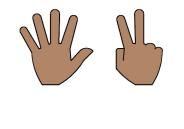
- We know that a deep understanding of concepts removes anxiety.
- Understanding lessens the burden of memorizing.
- Understanding makes advanced math easier to grasp.
- Math becomes more enjoyable!
- We need to focus on understanding!

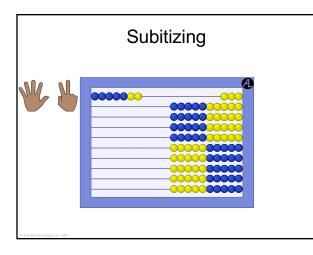
Solution for Success

- Foundation of subitizing
- Strategies to visualize the facts
- Practice and apply with games

Subitizing

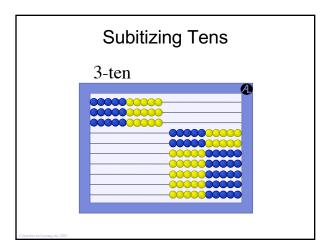
• Subitizing is quick recognition of quantity without counting.



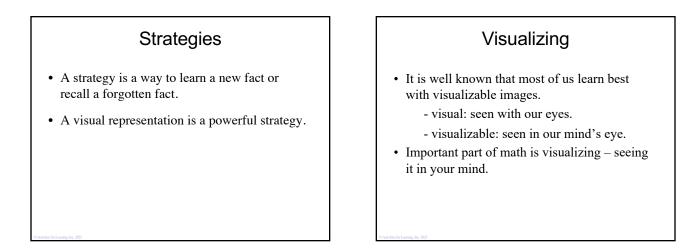


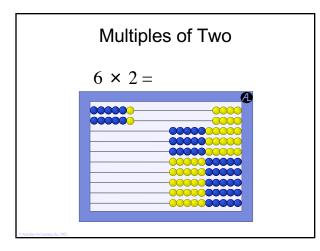
Subitizing

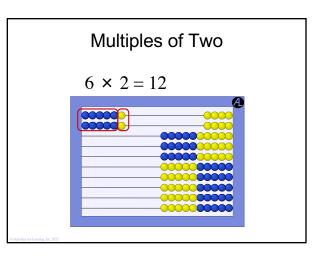
- Subitizing is quick recognition of quantity without counting.
- Subitizing allows quantities over five to be seen in groups of fives.
- Subitizing beyond ten is also done by grouping.
- Subitizing eliminates counting!

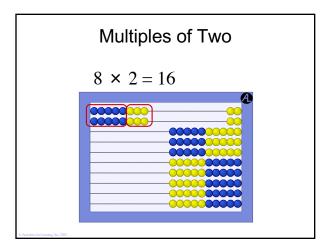


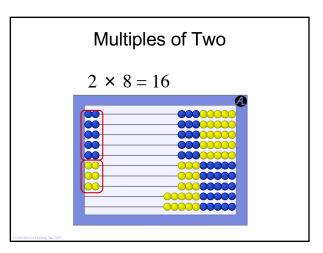
Subitizing Tens	
6-ten	
volue for Lemma Inc. 2023	





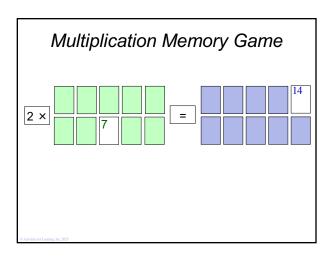


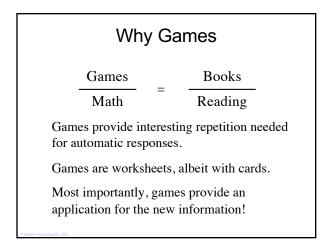


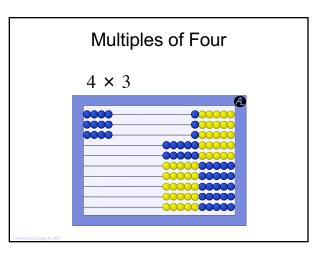


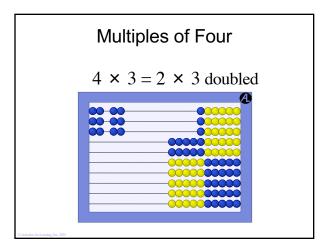
Multiplication Memory Game Objective: To help the players master the multiplication facts. Play: Turn over a basic card, state the fact, then try to find the matching product card.

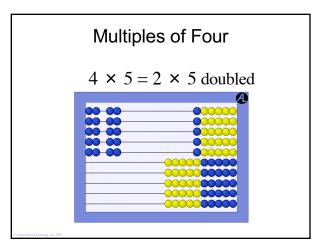
Goal: To collect the most cards by matching the multiplier with the product.

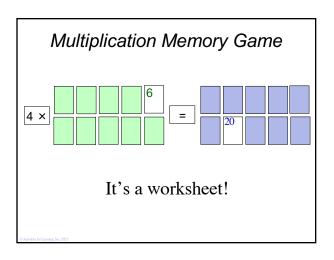


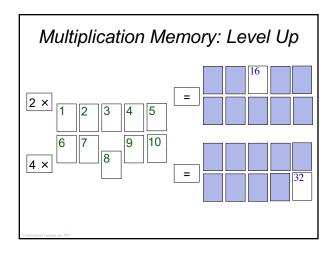


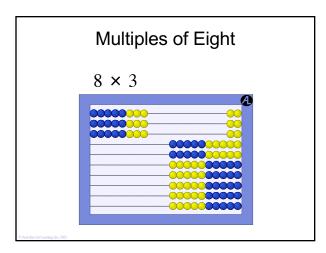


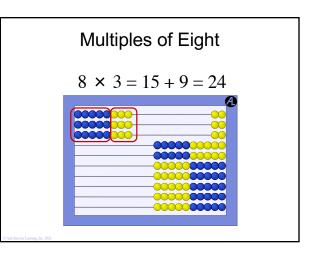


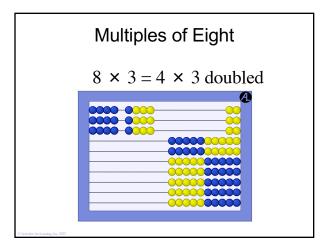


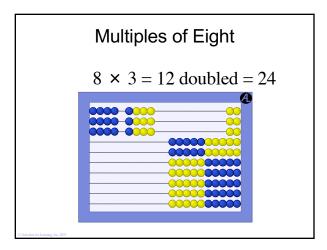


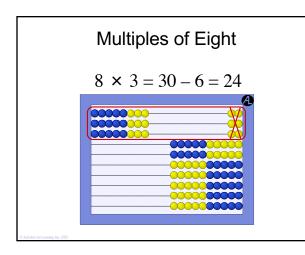


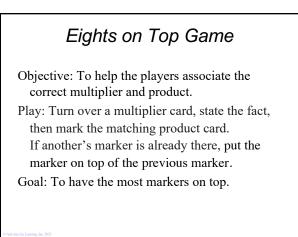


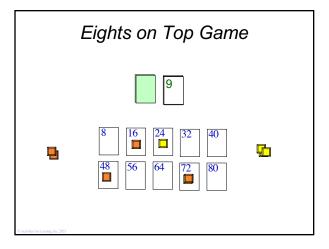


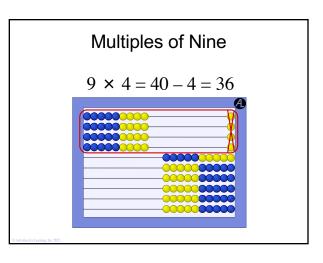


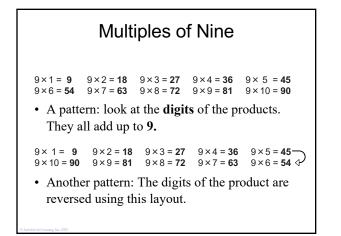


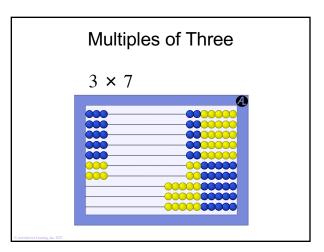


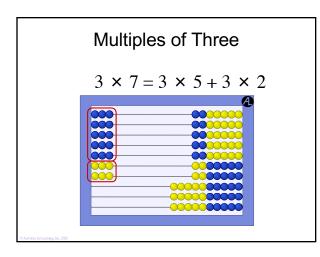


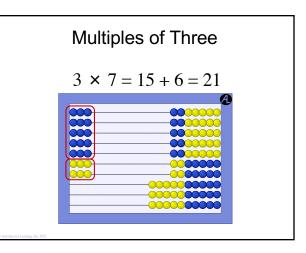


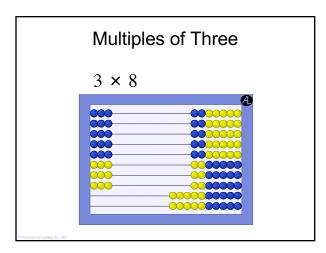


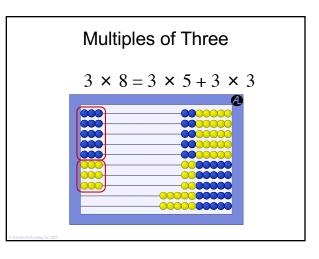


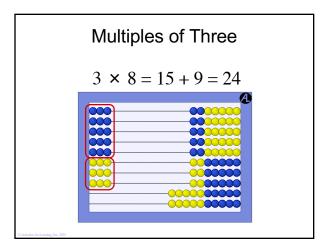


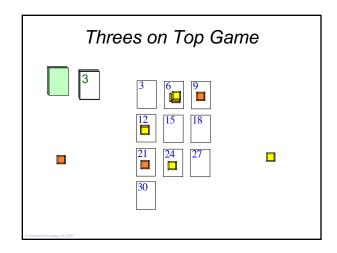


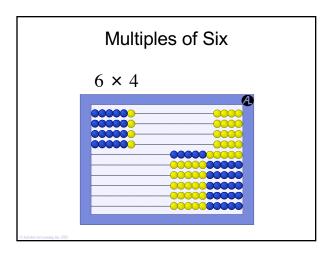


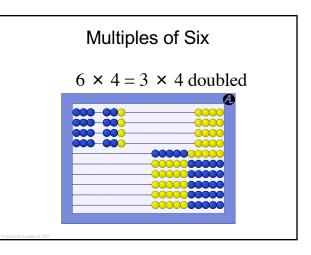


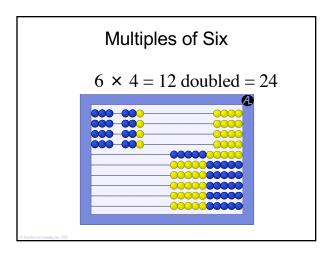


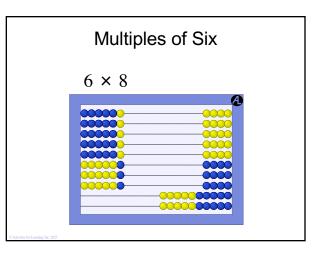


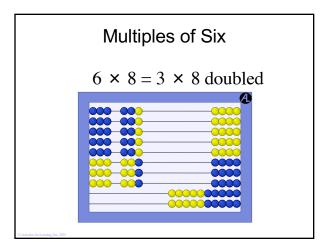


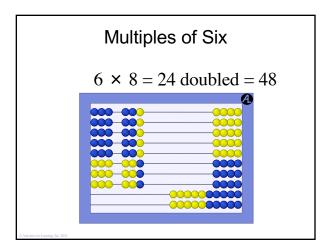


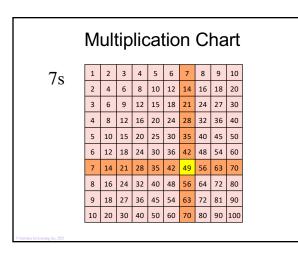




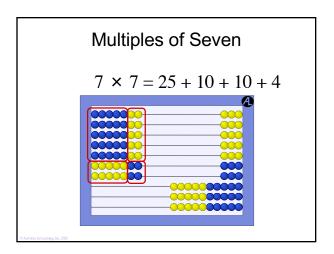


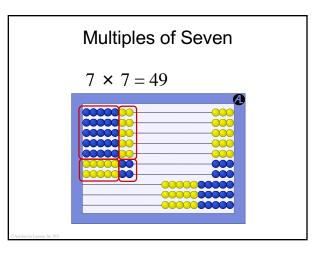






	Multiples of Seven
	7 × 7
for Learning, Inc. 2023	





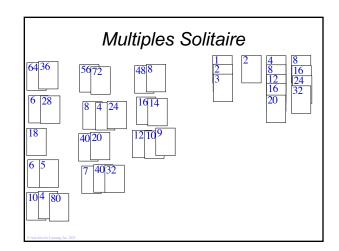
Multiples Solitaire

Rules:

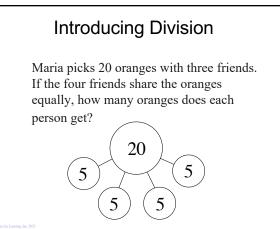
Choose four sets of multiples. Shuffle together. Only the top card of a fan may be played. Columns start with lowest number of a set.

Cards in a fan can be moved to another location if they immediately precede the card in a set that they are being moved to.

This example game: sets of 1s, 2s, 4s, and 8s.



Introducing DivisionMaria picks 20 oranges with three friends.If the four friends share the orangesequally, how many oranges does eachperson get? $\underline{5} \times 4 = 20$



Introducing Division

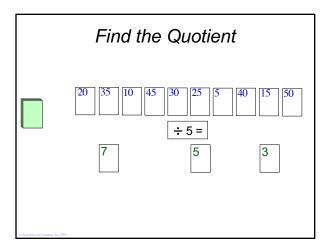
Maria picks 20 oranges with three friends. If the four friends share the oranges equally, how many oranges does each person get?

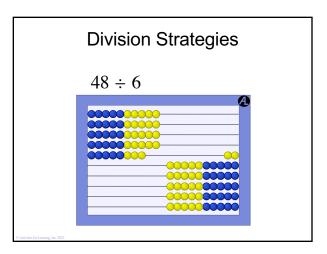
$$20 \div 4 = 5$$

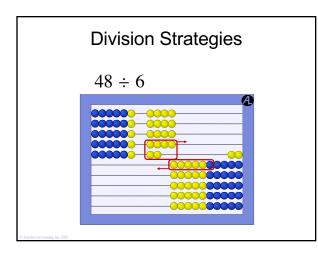
Find the Quotient

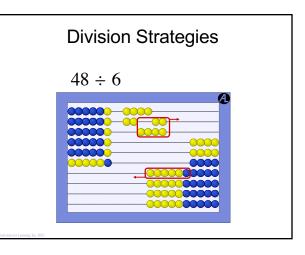
Objective: To see the relationship between multiplication and division.

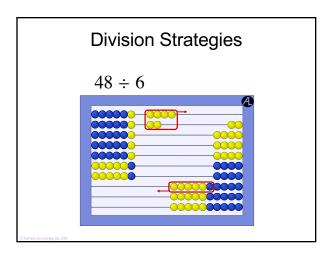
- Play: Pick up the top card, determine how many times the divisor is in that number, then place the card below that number in the row.
- Goal: To match all the cards.

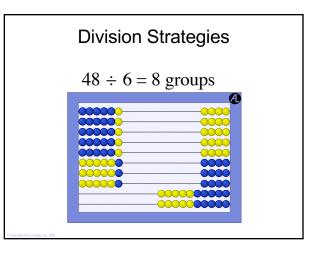


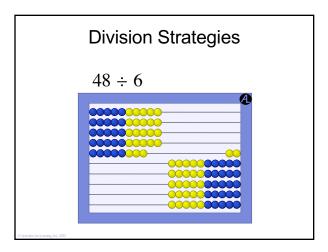


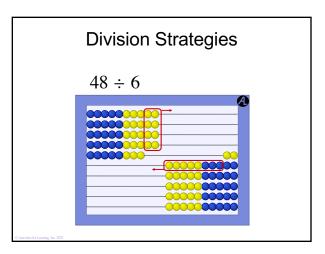


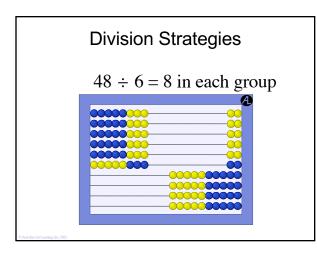


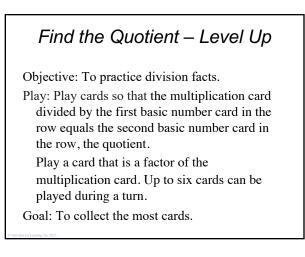


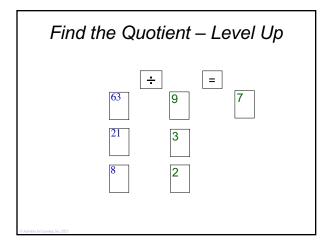


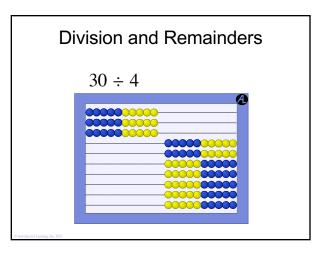


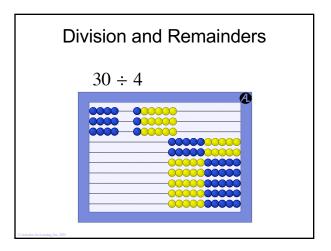


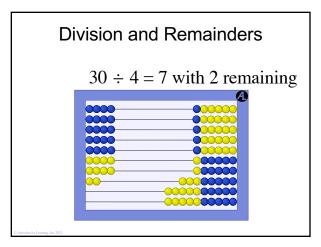


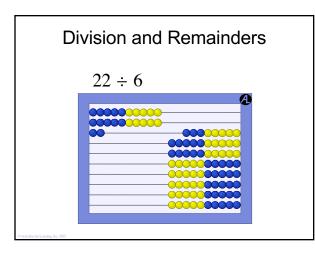


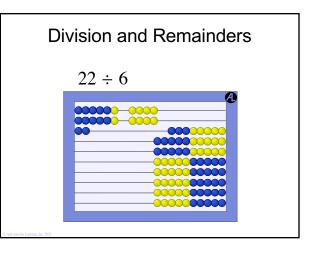


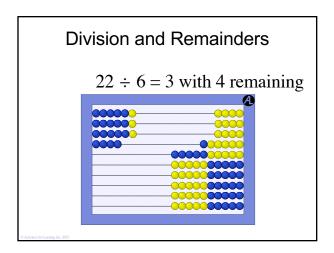


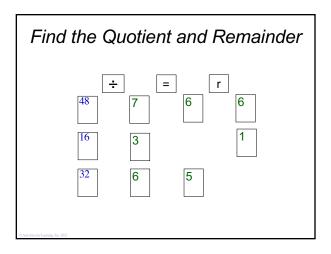












Solution for Success

- Foundation of subitizing
- Strategies to visualize the facts
- Practice and apply with games

Multiplication and Division

- We know that a deep understanding of concepts removes anxiety.
- Understanding lessens the burden of memorizing.
- Understanding makes advanced math easier to grasp.
- Math becomes more enjoyable!

In Conclusion ...

Math needs to be taught so 95 percent is understood and only 5 percent memorized.

> - Richard Skemp major pioneer in mathematics education

In Conclusion ...

Our goal as a teacher of mathematics is to help our children transform, expand, and refine these beginning ideas into deeper mathematical thinking.

-Dr. Joan A. Cotter

In Conclusion ...

If a child can't learn the way we teach, maybe we should teach the way they learn.

Ignacio Estrada,
 Gordon and Betty Moore Foundation