Grade 4

Number Sense Routines

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Week 1: Which One Doesn't Belong?

In math, ideas are more important than answers.

A

B

C

D

A

B

C

D

A

B

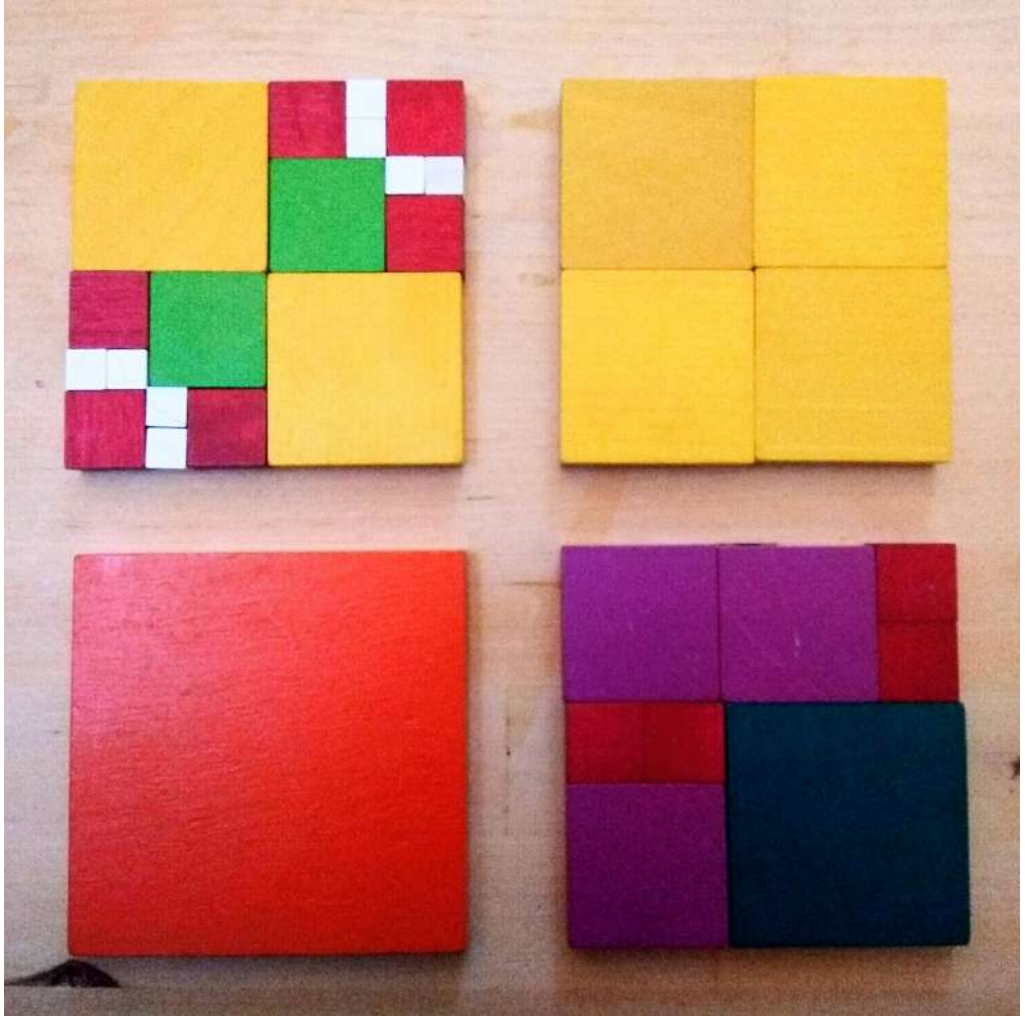
C

D

Picture by Simon Gregg (@simon_gregg), shared with permission

A

B



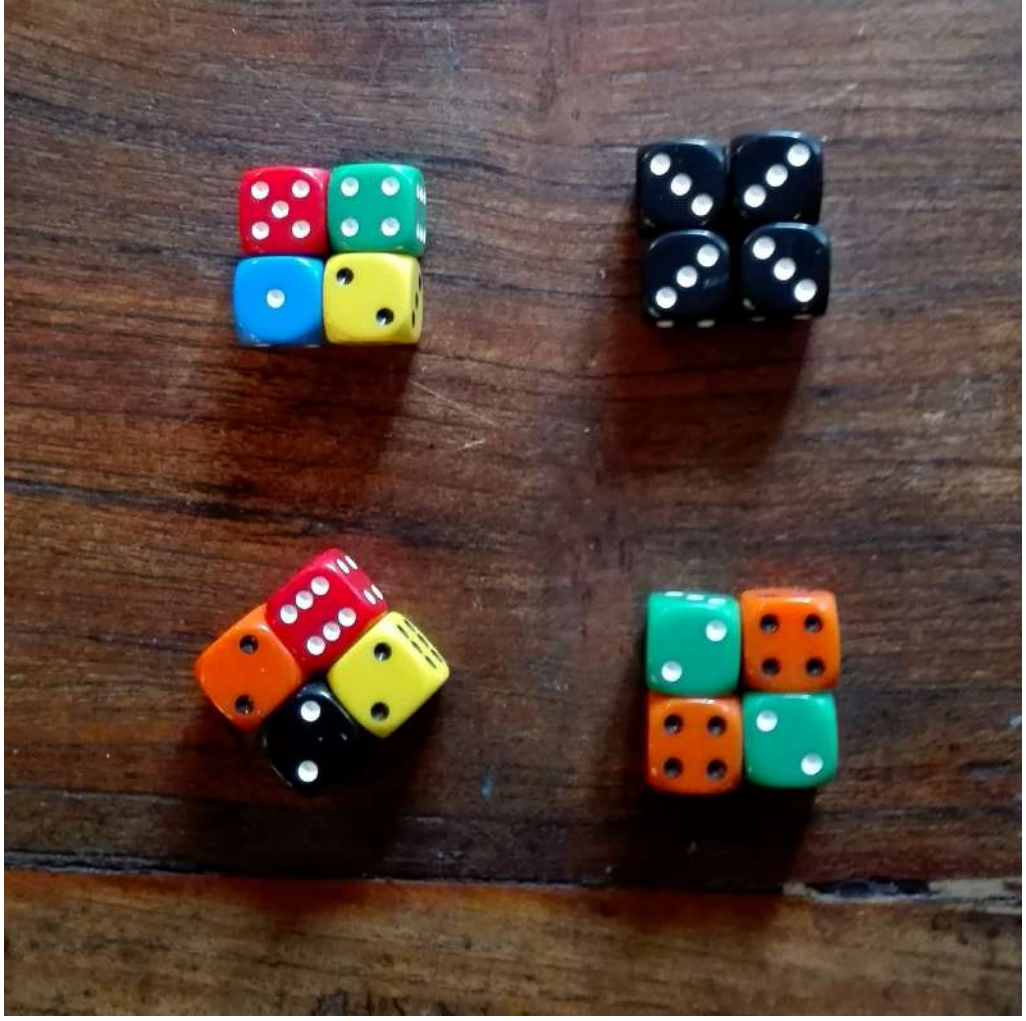
C

D

Picture by Simon Gregg (@simon_gregg), shared with permission

A

B



C

D

Picture by Simon Gregg (@simon_gregg), shared with permission

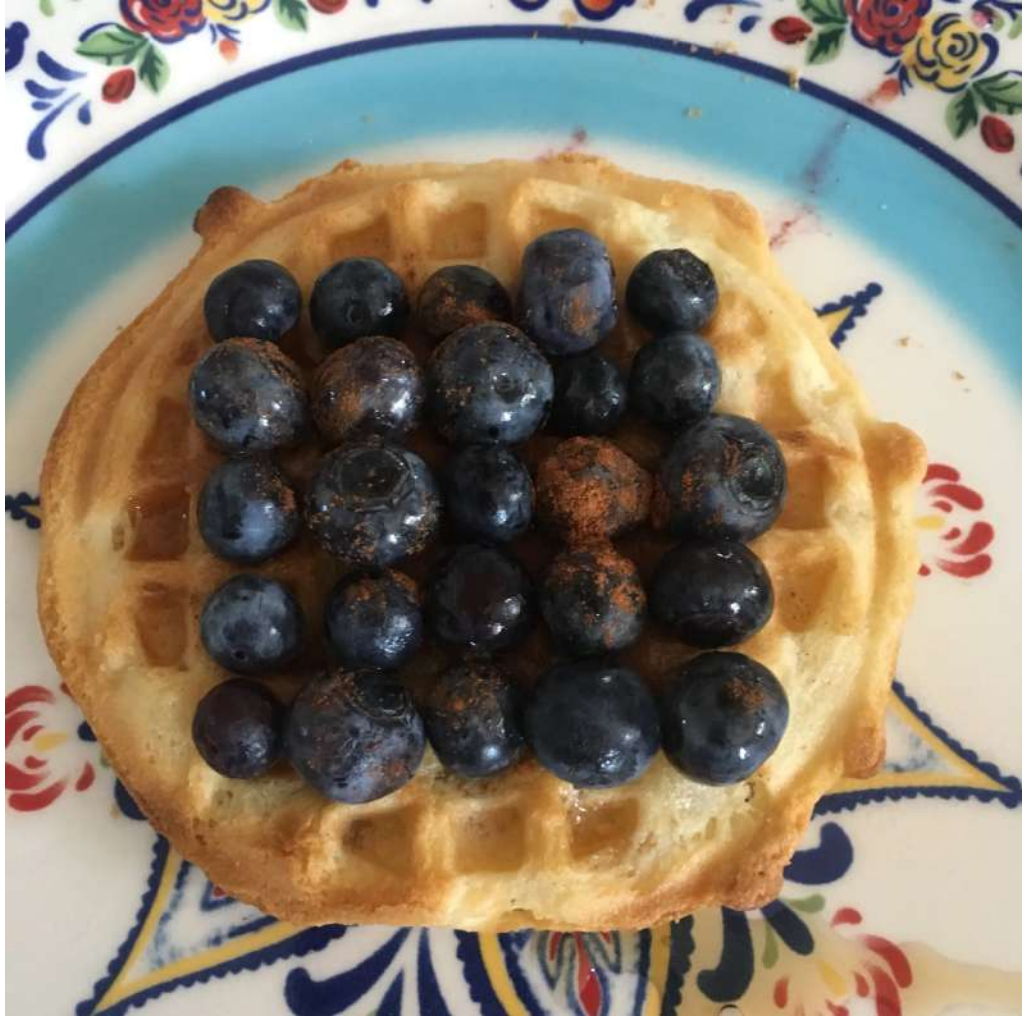
Week 2: Notice and Wonder

What does noticing mean?

What does wondering mean?


N
N

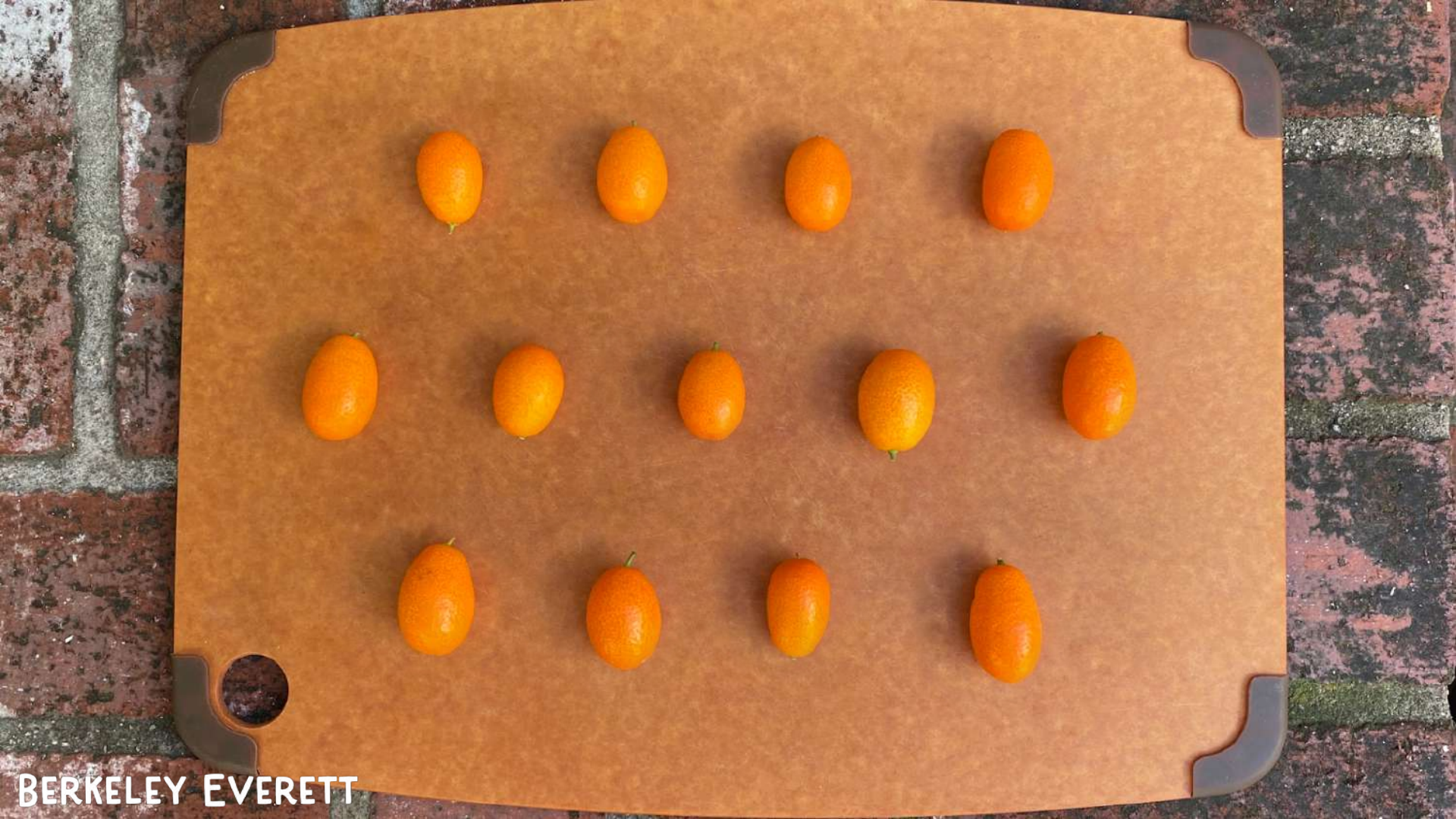

XENIA TALER
XENIA TALER
XENIA TALER




$4
Each Basket

Week 3: How Many?

How can you see the same problem from different perspectives?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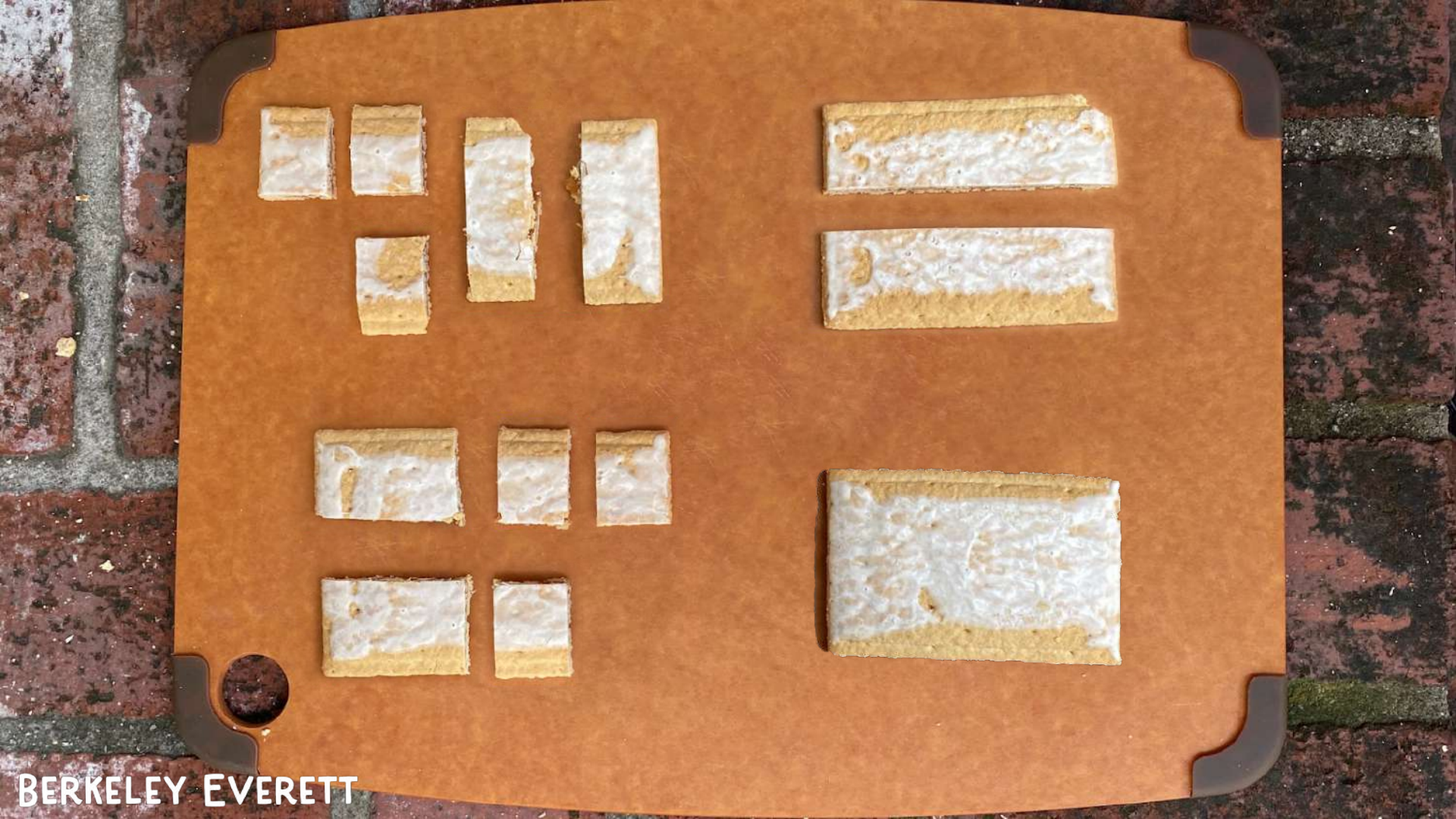
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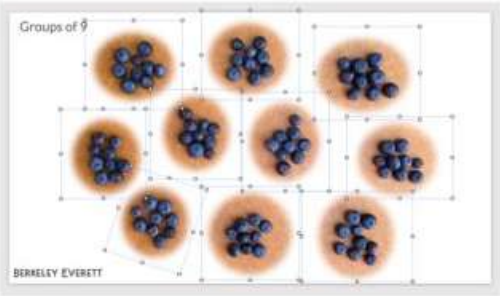
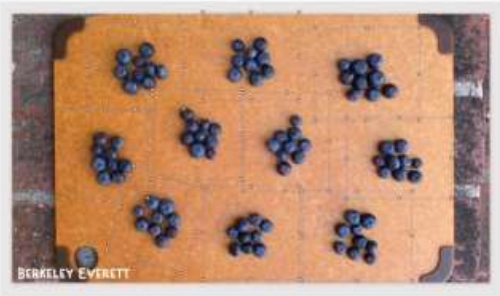
Make your own custom images!

Select and copy the images you want



Paste onto background image



Delete/rearrange for custom image (or mix/match groupings)

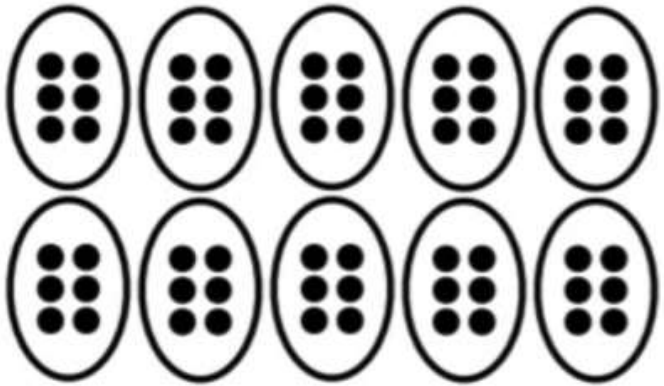
Or, create a sequence of slides that changes over time

Access them all for free: https://berkeleyeverett.com/images/custom-number-talk-images/

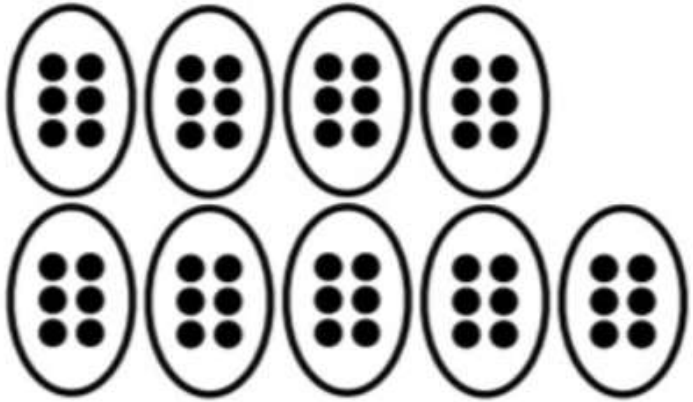
Week 4: Math Flips

Math is about finding relationships between problems to make them easier to solve.

A

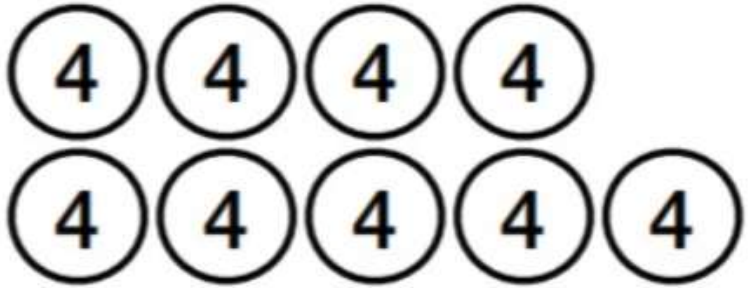


B

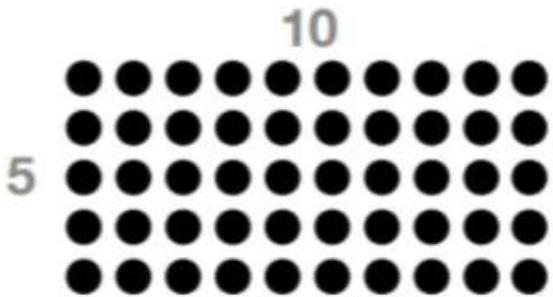


A

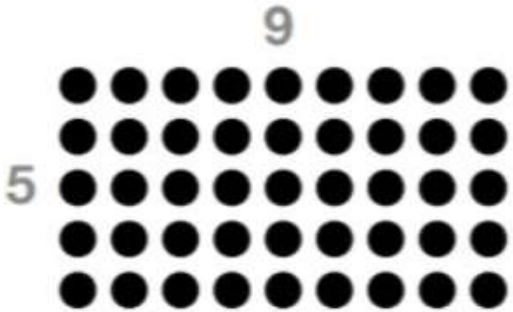
B



A



B



A

10x7

B

9x7

Math Flips Day 5:

(Look back over the Math Flips you've done)

What do you notice about this deck?

How does side A help you solve side B?

Which **Math Flips** decks are best for 4th Grade?

Addition:
- *(Prerequisite deck)* Subitizing
- Plus and Minus 1 within 10
- Count On within 10
- Count On within 20
- Doubles and Near Doubles
- *(Prerequisite deck for Make 10)* Combinations of 10
- *(Prerequisite deck for Make 10)* Teen Numbers
- Make 10 with 3 Addends
- Make 10 with 2 Addends
- Plus and Minus 10 and 1 with 2 Digit Numbers
- 2 Digit plus 1 Digit
- 2 Digit plus Multiples of 10
- 2 Digit plus 2 Digit

Subtraction:
- Within 10
- Within 15
- Within 20
- Within 100

Multiplication:
- 2s, 5s, and 10s with Commutative Property
- Doubling with 4s, 6s, and 8s
- Friendly Numbers with 3s and 6s
- Friendly Numbers with 9s and 4s (This week's deck)
- Hardest Facts
- 1 digit by Multiple of 10
- 1 digit by 2 digit Partial Products
- 1 digit by 2 digit Over and Subtract
- 1 digit by 2 digit Five is Half of Ten
- 1 digit by 2 digit Factoring

Access them all for free: www.berkeleyeverett.com/math-flips

Week 5: Open Questions

What patterns will you discover?

How can you extend them?

Tell me everything you know about $\frac{3}{4}$

What are different ways to make 60?

___ = 2 x ___

___ + 99 = ___

___ = ___ - 49

Thank you!

Keep in touch with Berkeley:

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