Grade 5

Number Sense Routines

BERKELEY EVERETT .com

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

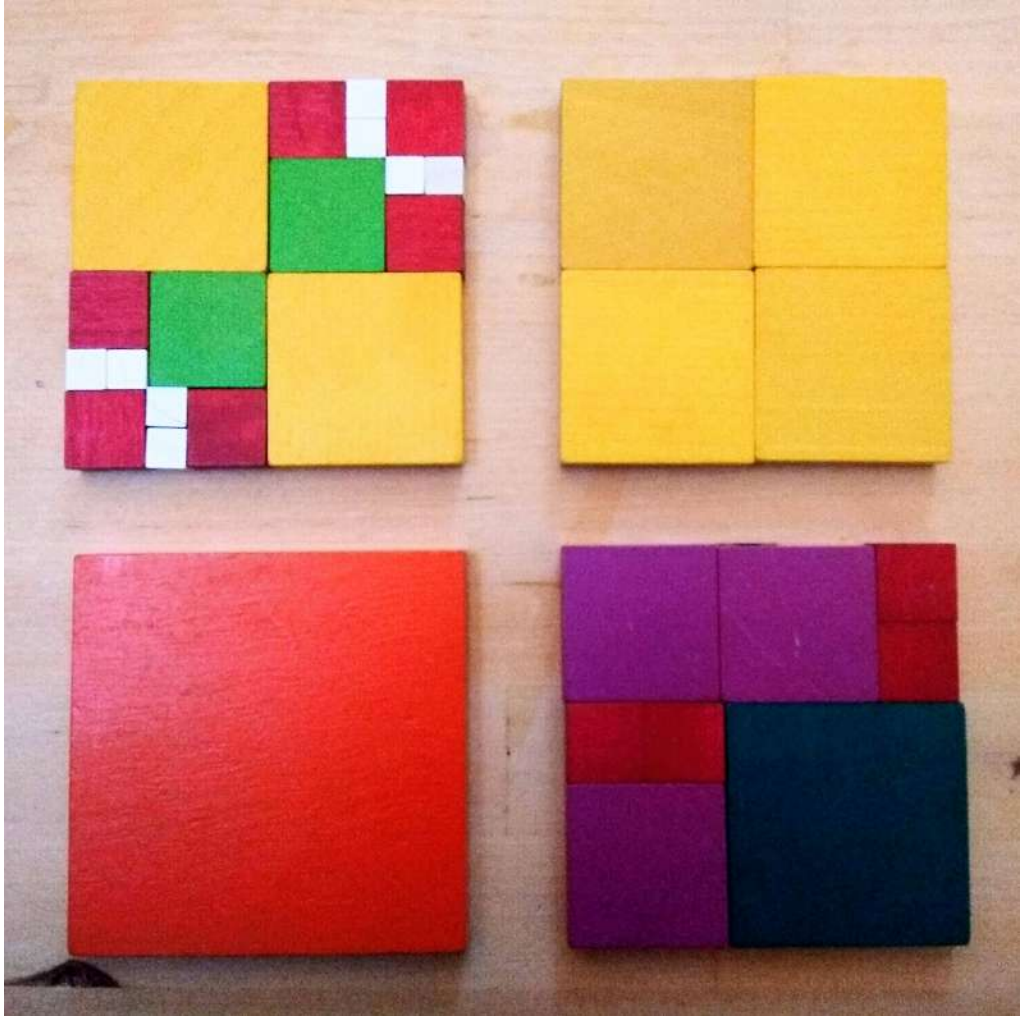
C

D

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

A

B



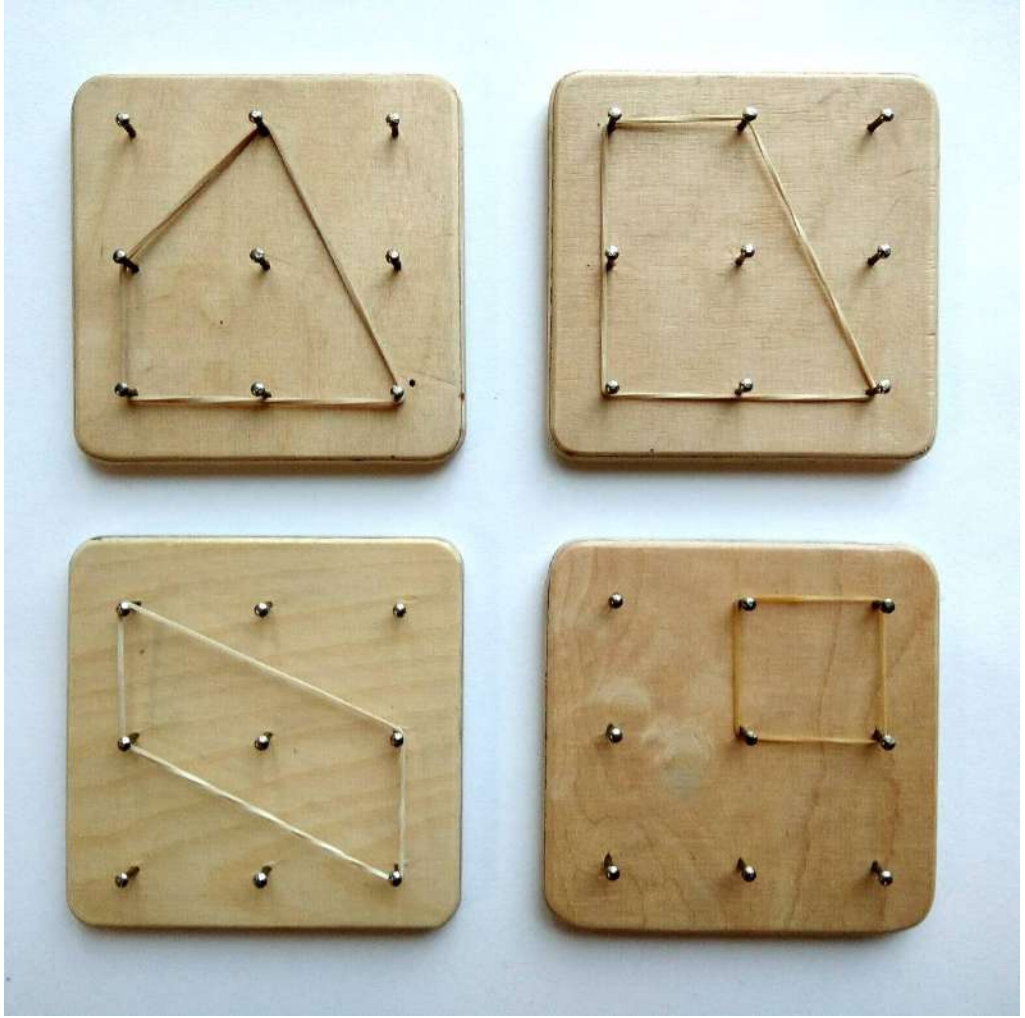
C

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?

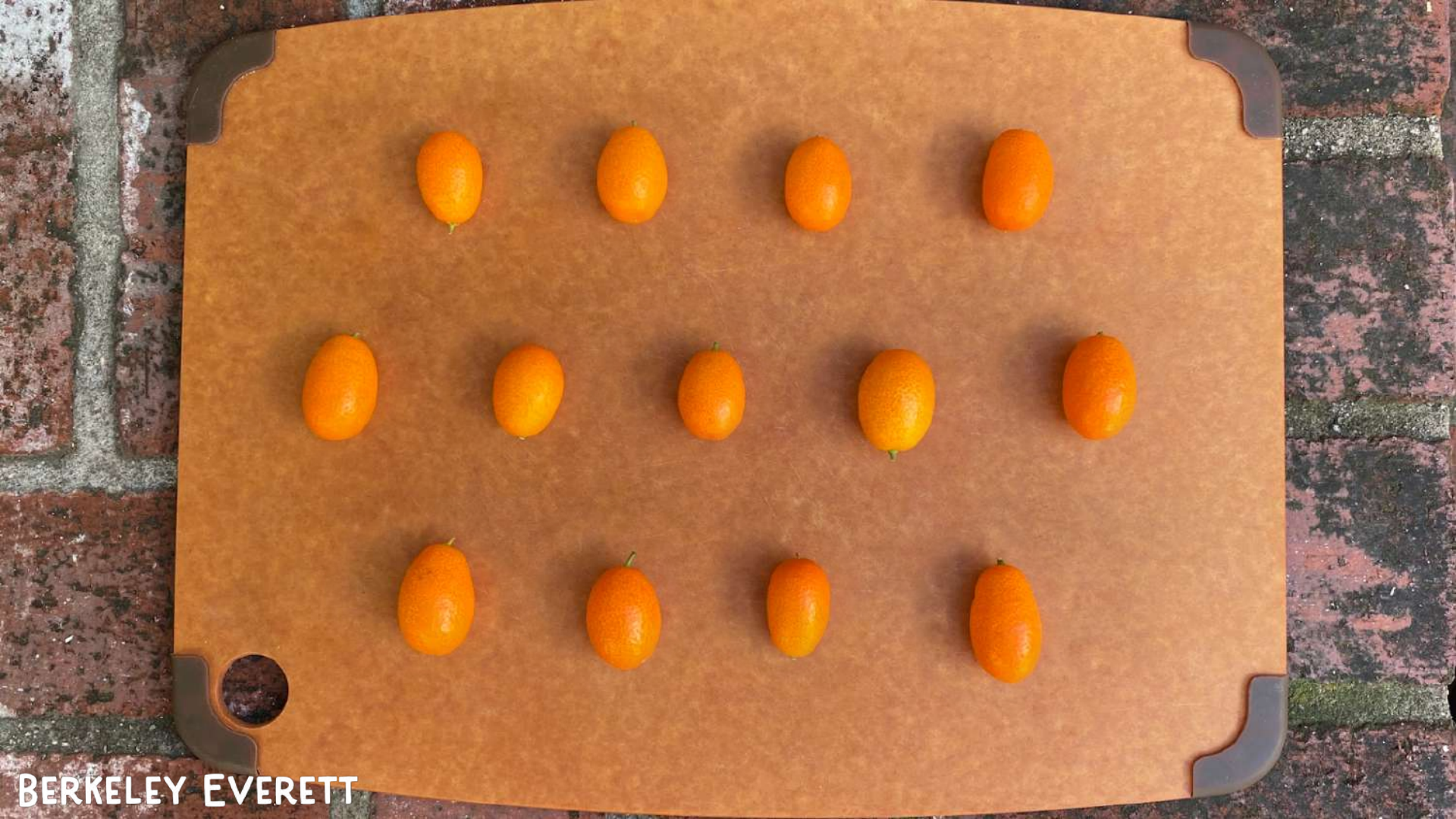
What does wondering mean?


$4
Each Basket


N
N

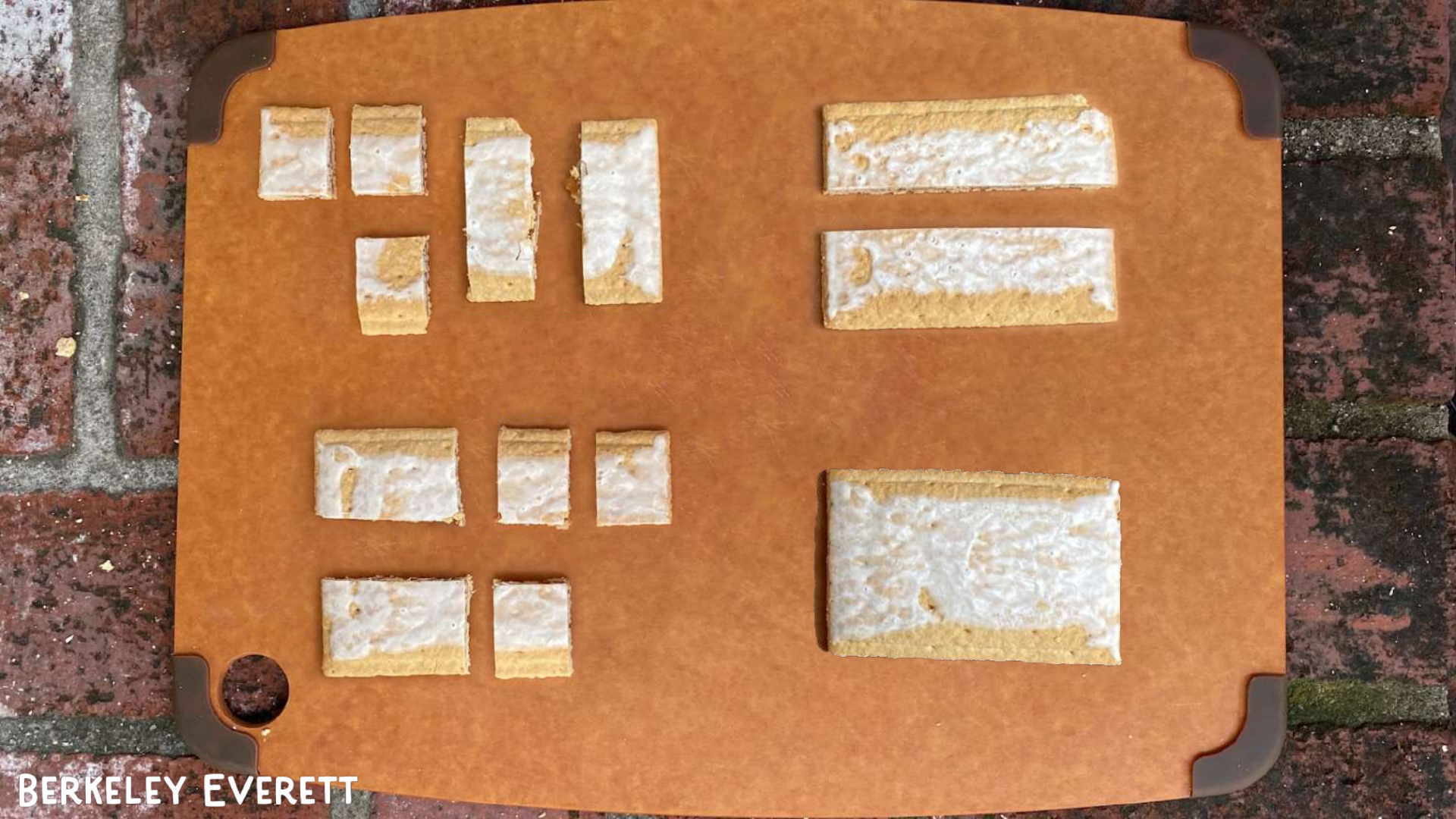
Week 3: How Many?

How can you see the same problem from different perspectives?


BERKELEY EVERETT


Berkeley Everett

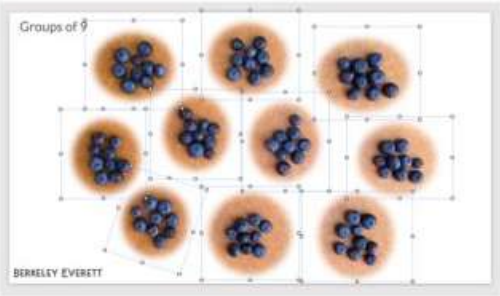

BERKELEY EVERETT


BERKELEY EVERETT

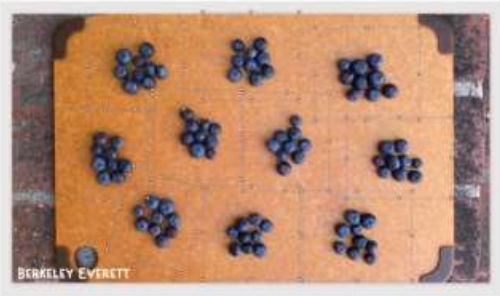

BERKELEY EVERETT

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)

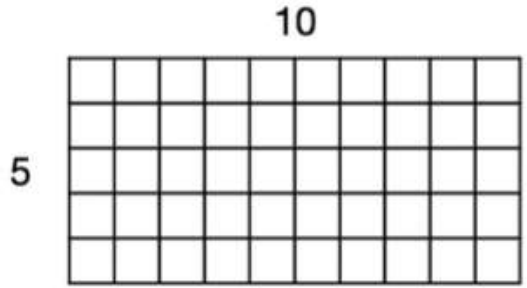
Or, create a sequence of slides that changes over time

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

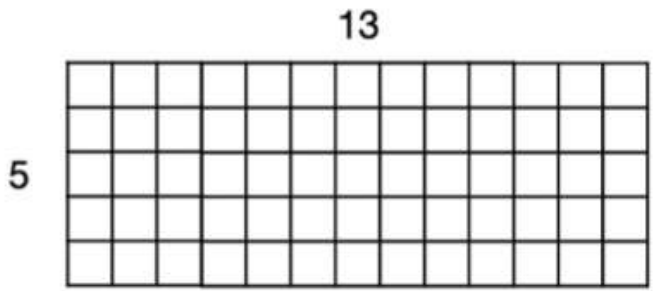
Week 4: Math Flips

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

A

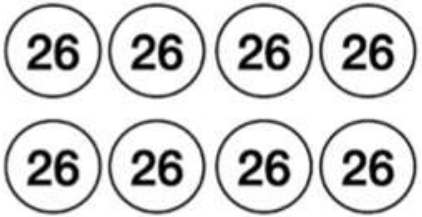


B

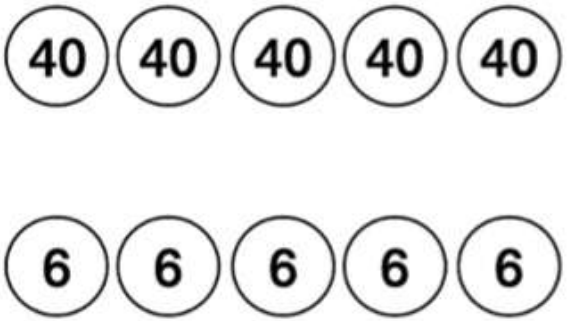


A

B



A



B

A

$(6 \times 50) + (6 \times 7)$

B

6×57

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 5th 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
- Hardest Facts
- 1 digit by Multiple of 10
- 1 digit by 2 digit Partial Products (This week's deck)
- 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 $\frac{6}{4}$

What are different ways to make $\frac{3}{4}$?

___ + 999 = ___

Two numbers multiplied are almost 200. What could they be?

Adapted from Marian Small

___ ÷ 10 = ___

Thank you!

Keep in touch with Berkeley:

Website: www.berkeleyeverett.com

Twitter: @berkeleyeverett

Facebook: Math Visuals for All

Email: mathvisuals@gmail.com