High Yield Routines in the CGI Classroom:

How to Talk Less and Listen More

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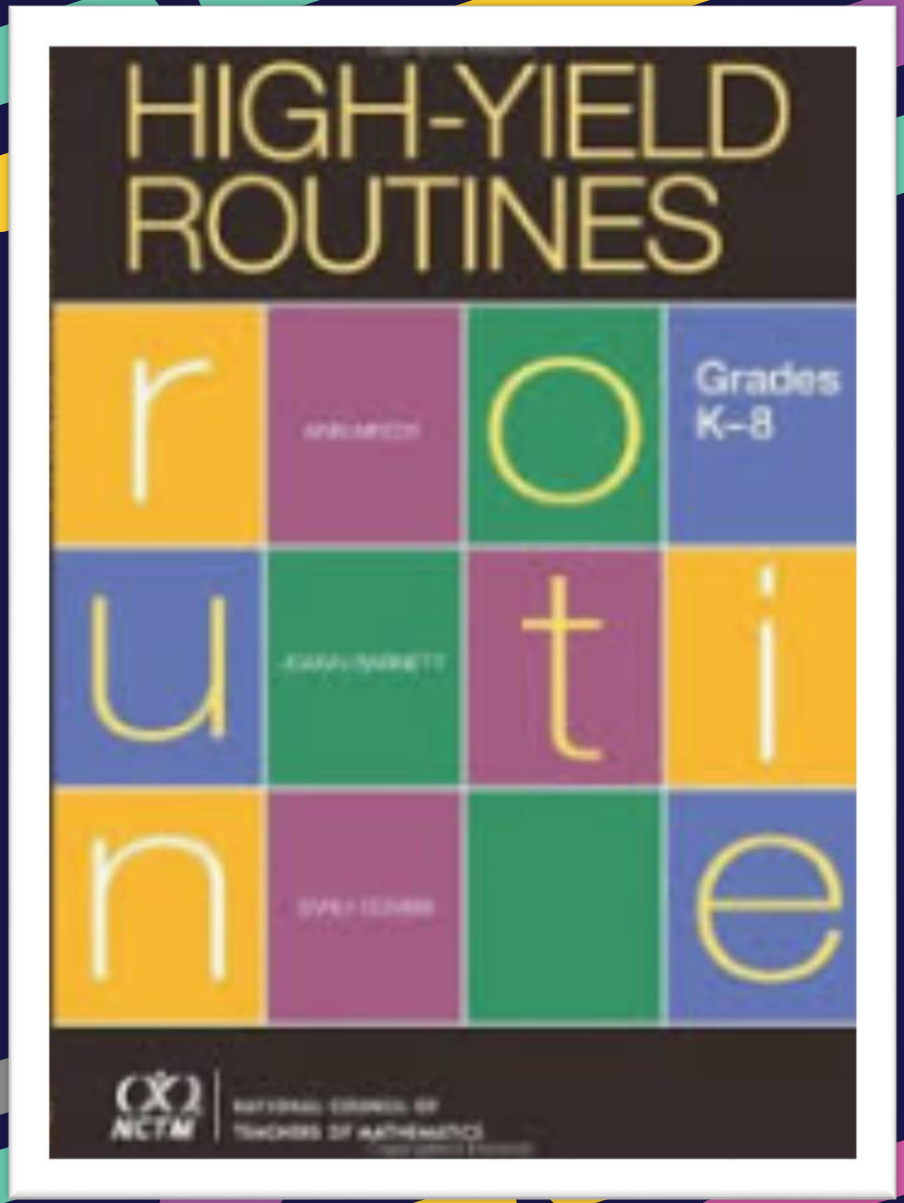

HIGH-YIELD ROUTINES
Grades K–8
NCTM

“Teaching isn’t about just getting through the day...It’s about inspiring real change in students and making an impact that lasts a lifetime.”

WHY?

"Mathematical routines offer opportunities for students to demonstrate their thinking and for teachers to gain insight into the thinking of their students."

STANDARDS FOR MATHEMATICAL PRACTICE

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

High Yield Routines

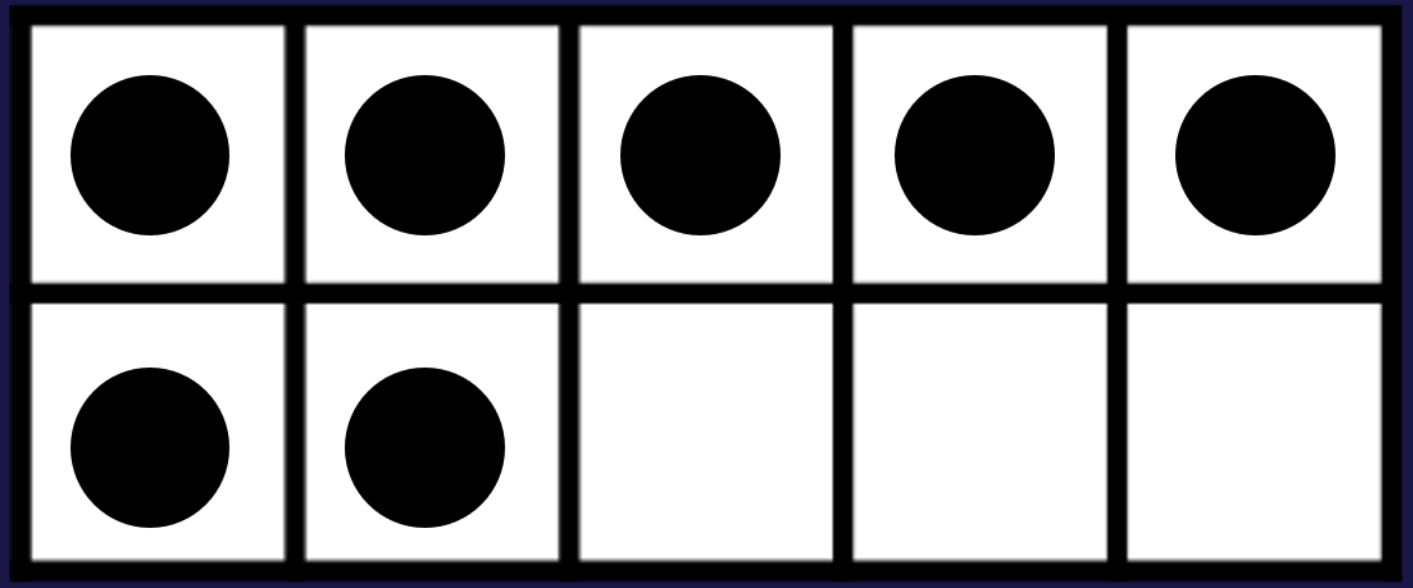
- Today's Number
- Mystery Number
- Alike and Different
- Number Lines
- Quick Images
- Guess My Rule
- How Do You Know?

"Choosing a few routines to implement and implementing them consistently and often will yield the greatest benefits for students."

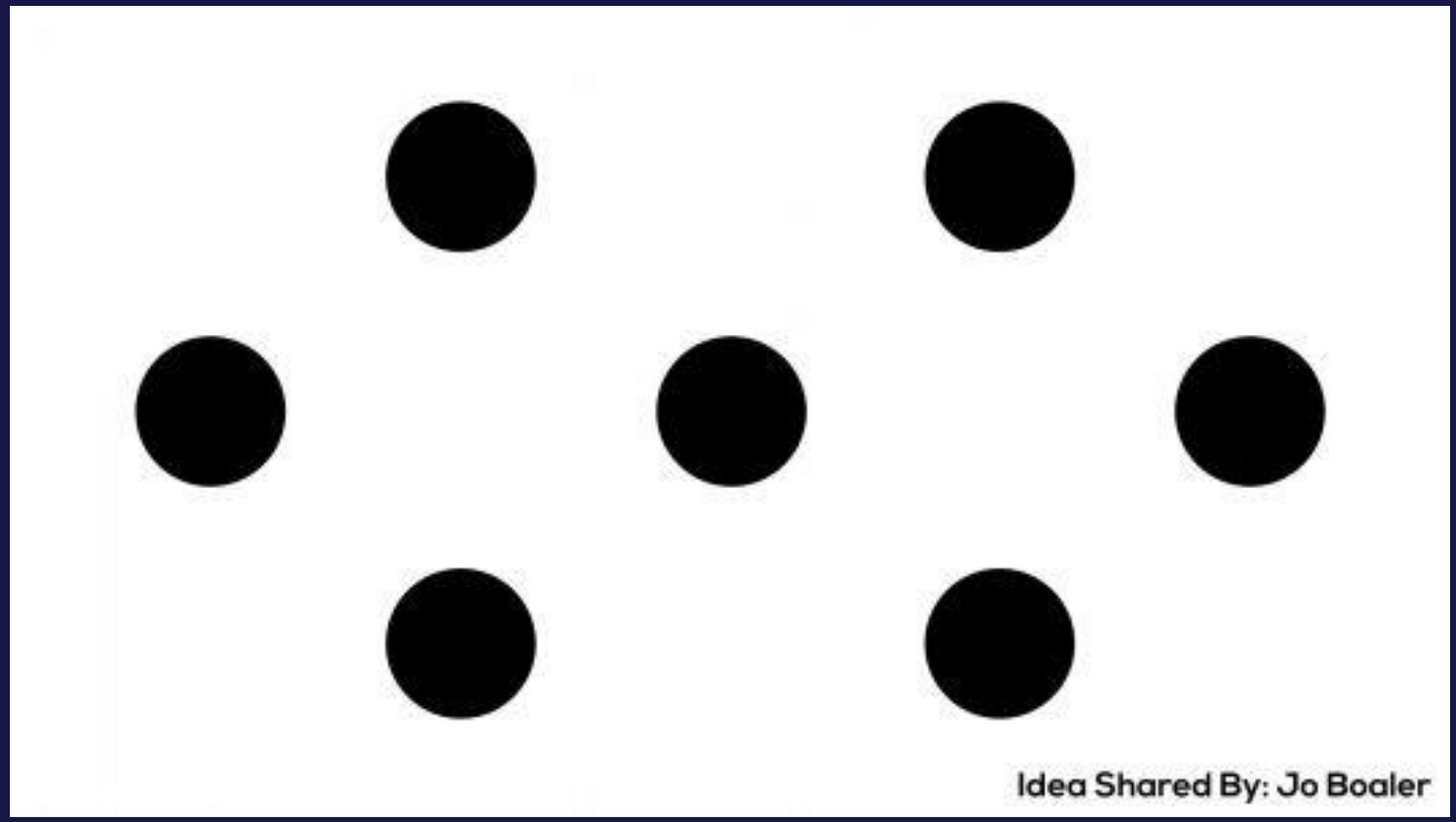
Quick Images

- Recognizing quantity in a small group saves time.
- Subitizing is a forerunner of powerful ideas related to numbers.
- It helps children develop more sophisticated counting techniques.
- Develops proficiency with addition and subtraction.

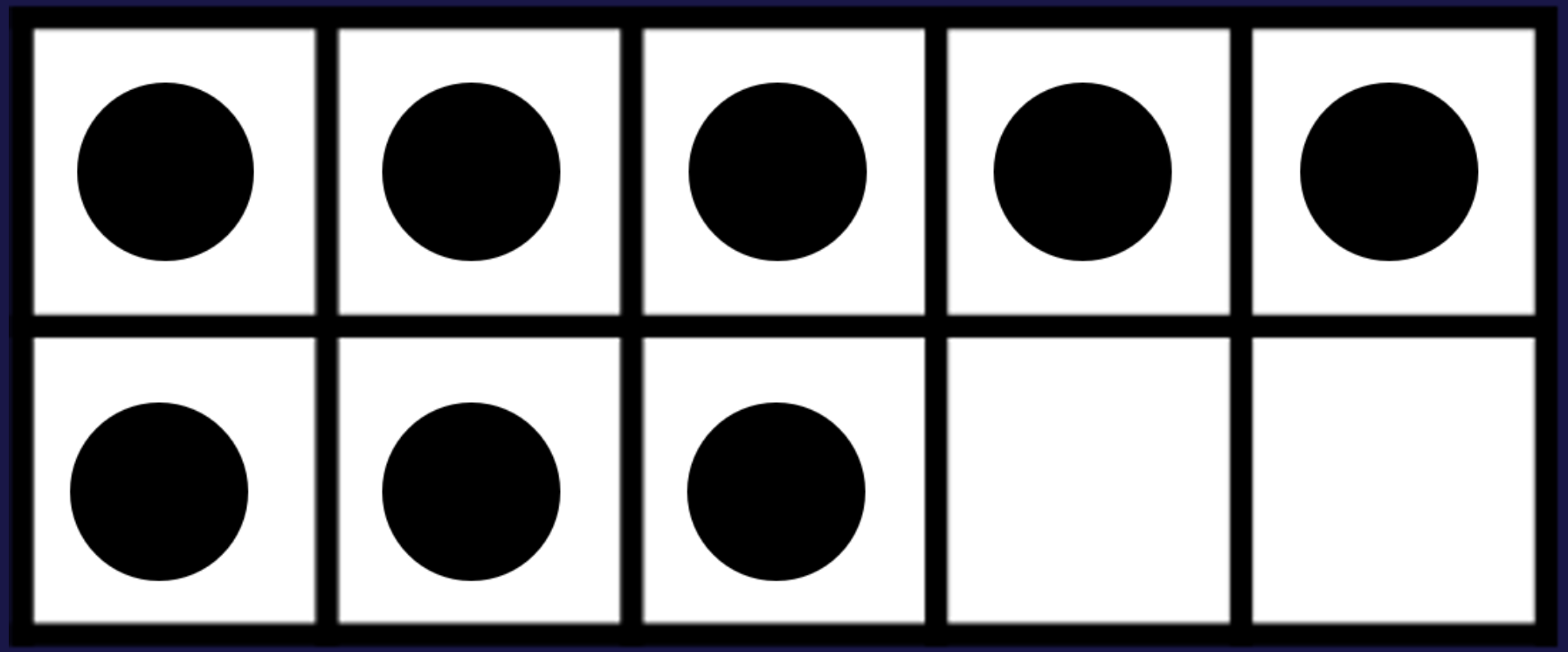
Quick Image



Quick Image


Idea Shared By: Jo Boaler

Quick Image

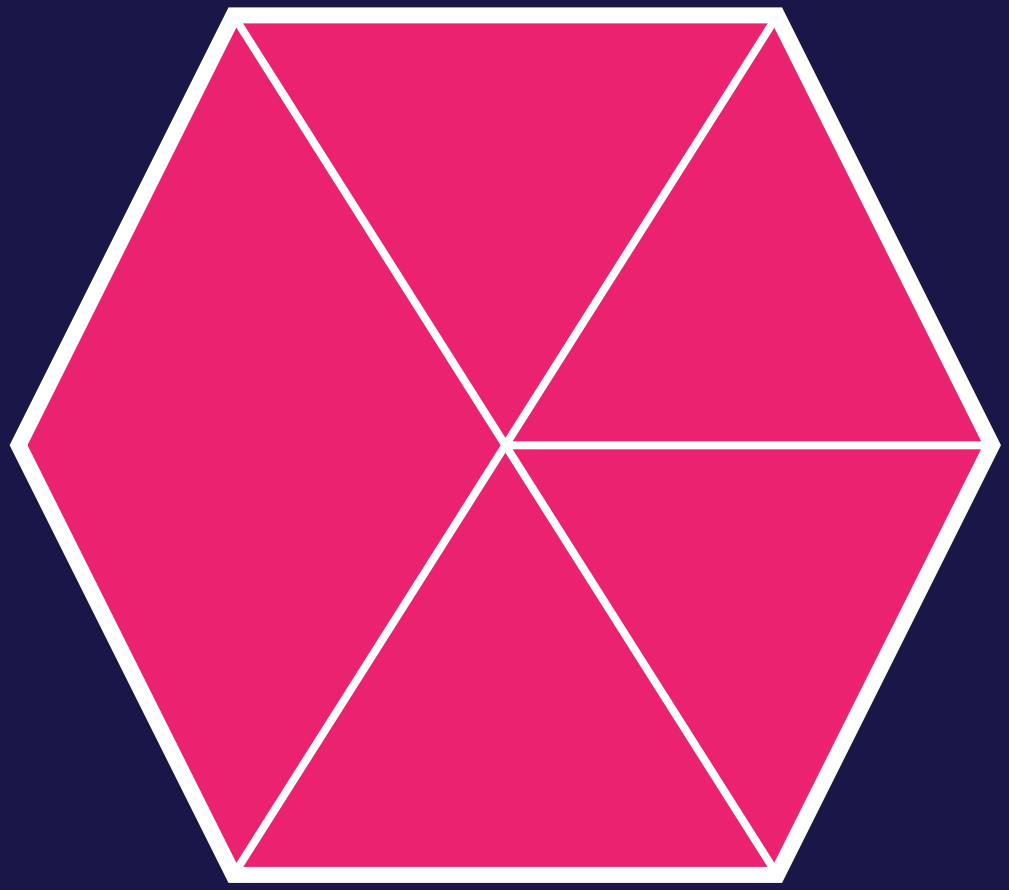


$$8 + 2 = 10$$

or

$$10 - 2 = 8$$

Quick Image



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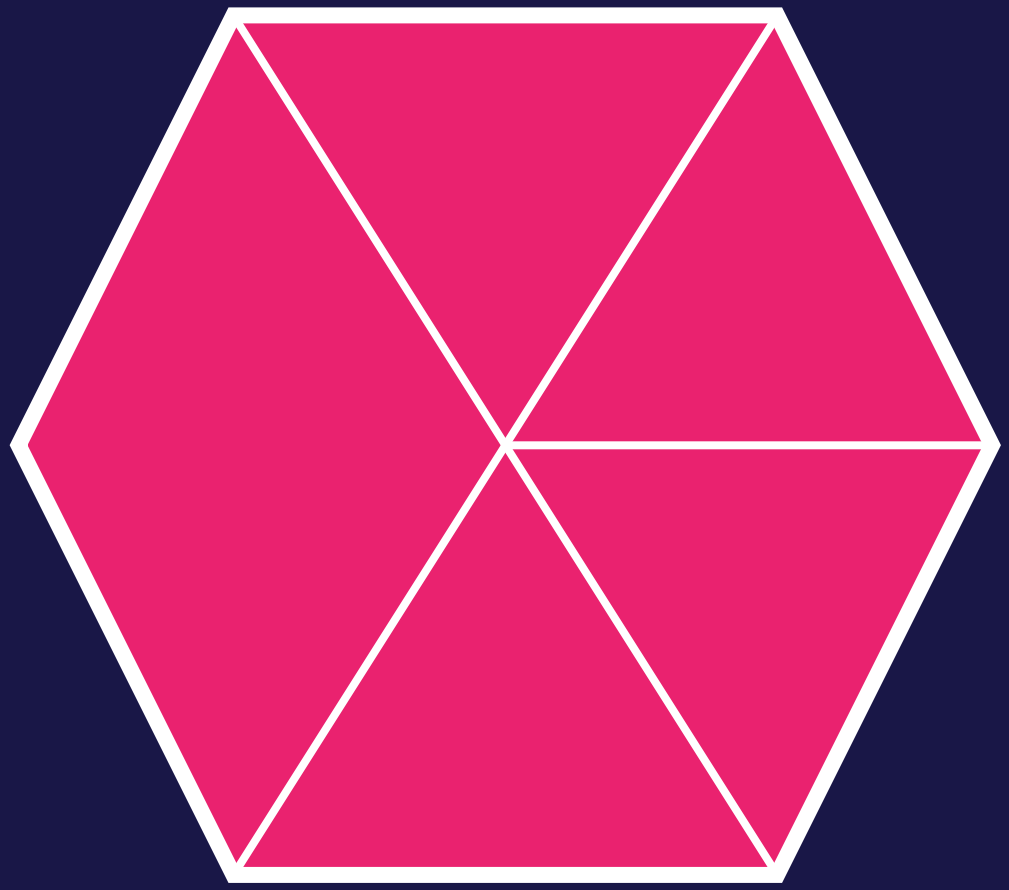


Turn and Talk

Number Line

- A number line is usually visible in the classroom to the students, but is rarely used as effectively as it might be.
- This routine provides flexibility in thinking and implementation.
- You may also use this routine with computation, or an open number line.

The students would decide where .23 would go on the number line.

On this example you may just ask the students what number they think goes on the empty line.

Turn and Talk

Today's Number

- Two aspects of number sense are greatly encouraged through the use of the Today's Number strategy:
  1. Composition of numbers
  2. Decomposition of numbers

Fig. 1.1.

Kindergarten class representations of 7

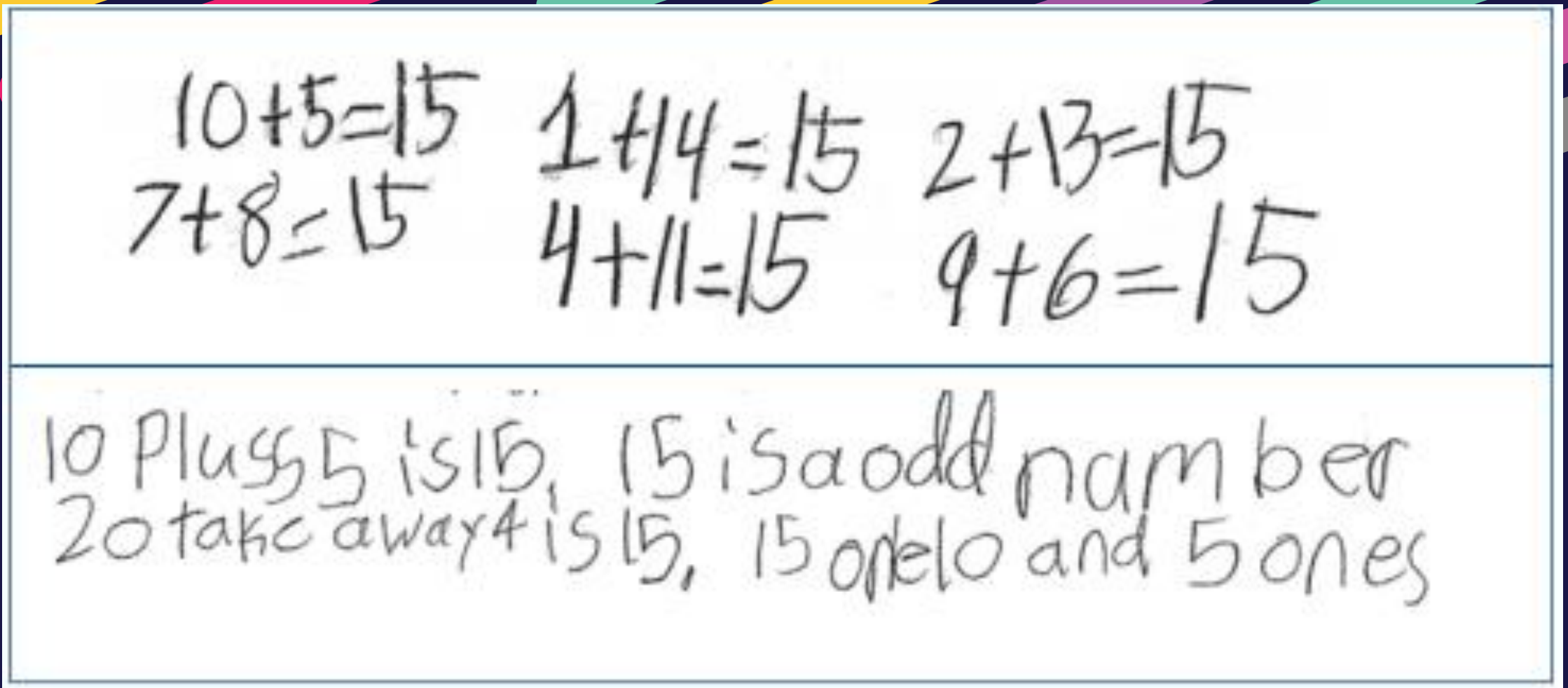


Fig. 1.3a and 1.3b.

Second graders use decomposition to represent 15.

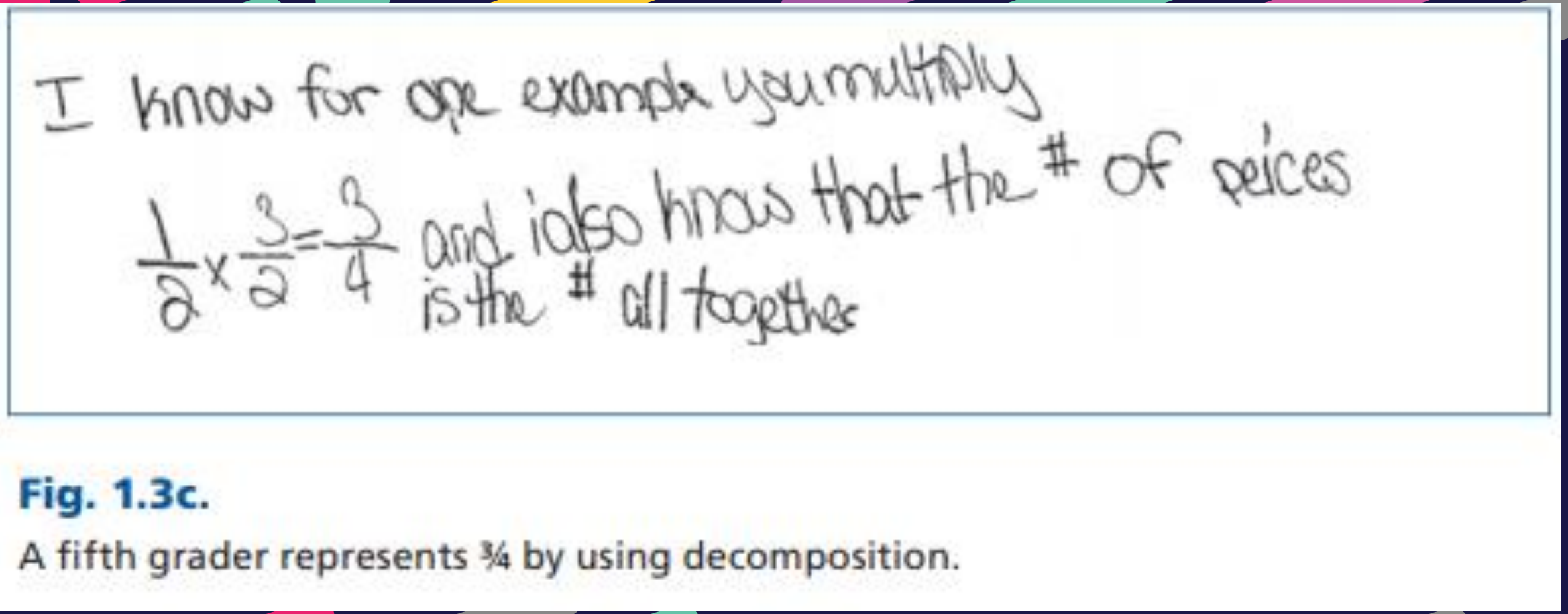


Fig. 1.3c.

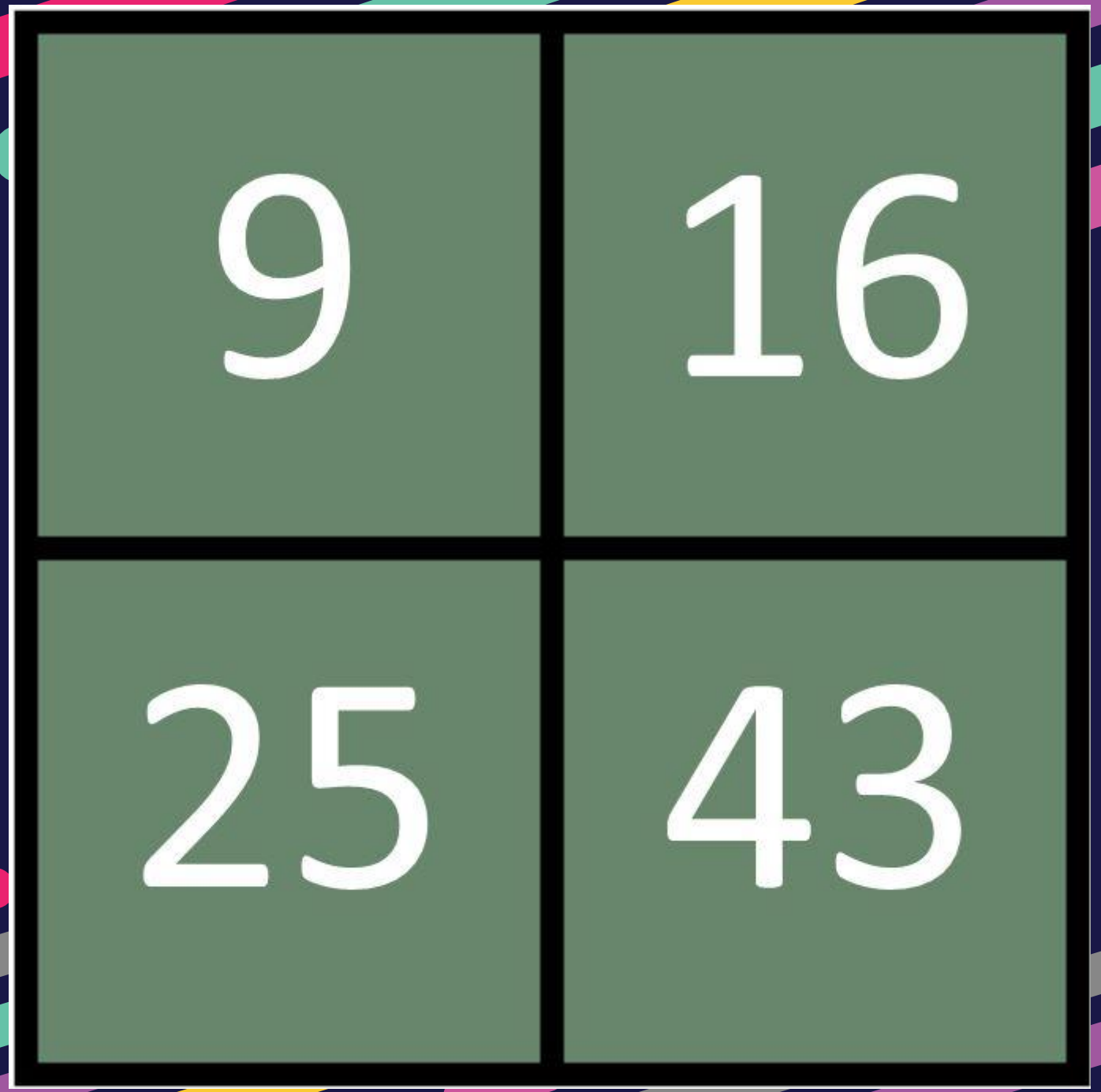
A fifth grader represents ¾ by using decomposition.

Turn and Talk

BONUS

Which One Doesn't Belong

Inspired by Christopher Danielson


9
16
25
43

THANK YOU!

ANY QUESTIONS?

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