

Link to slides

<https://tinyurl.com/FractionTalksNCTM19>

Fraction Talks

NCTM 2019



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Fraction Talks

NCTM 2019

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Fraction Number Sense

- Reasoning around benchmarks.
- Flexibility using equivalence and unit.
- Using and developing strong mental images.
- Searching and selecting strategic numbers.
- Thinking before acting.

The Number Talk Routine



Solve the problem mentally.



Silent thumb when you have a solution.

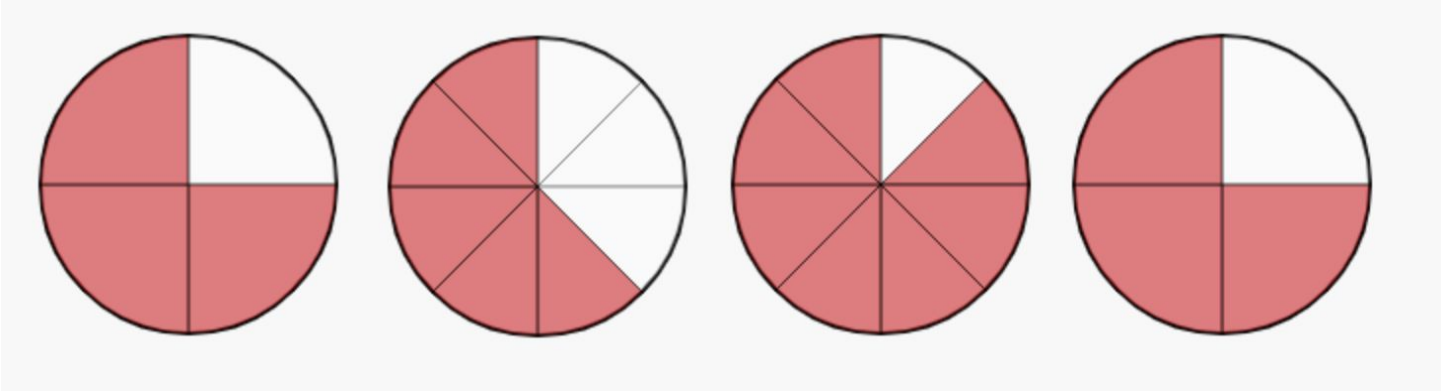


Keep thinking!

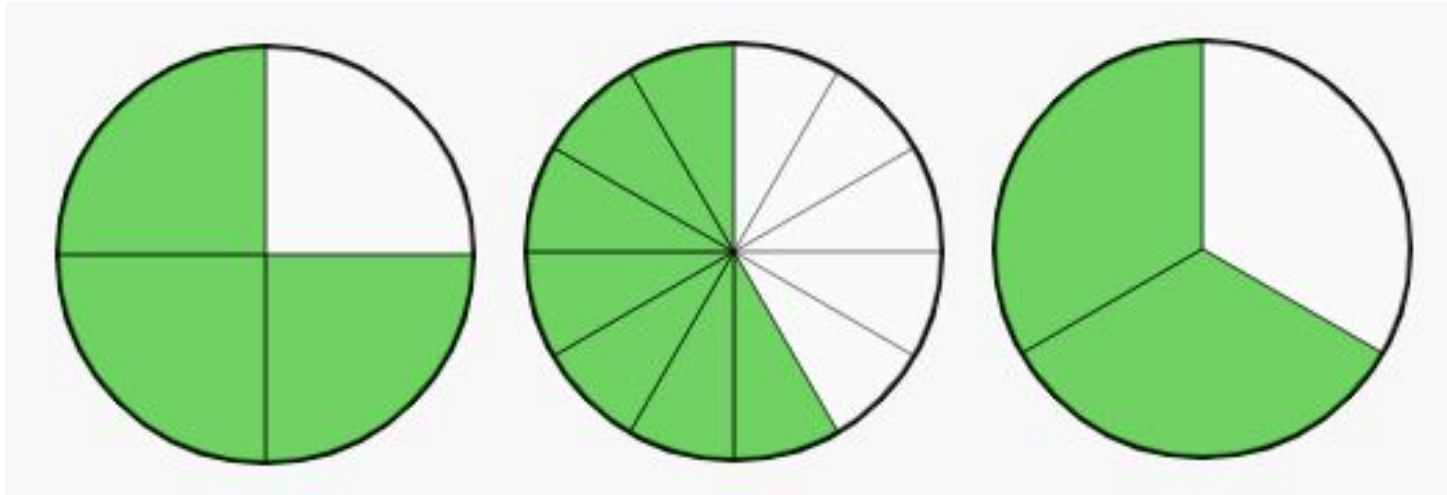


Fingers up as you think of different ways to solve the problem.

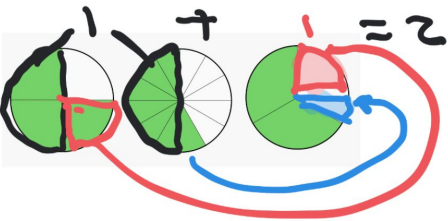
Fraction Talk #1



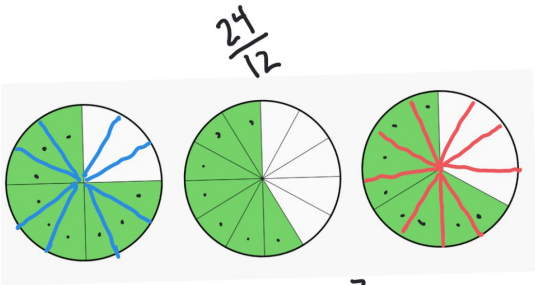
Fraction Talk #2



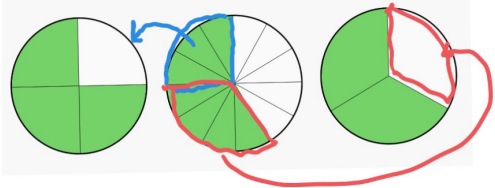
Notice and Wonder



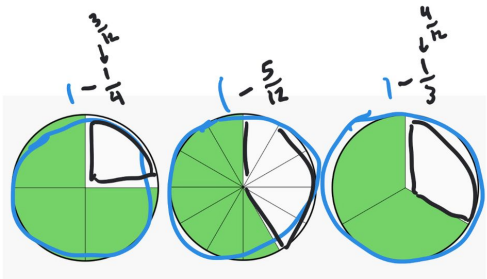
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{2}{4} + \frac{1}{4} + \frac{6}{12} + \frac{1}{12} + \frac{2}{3}$$
$$\frac{1}{2} + \frac{1}{2} + \frac{1}{4} + \frac{1}{12} + \frac{2}{3}$$
$$2$$



$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{3 \cdot 3}{4 \cdot 3} + \frac{7}{12} + \frac{2 \cdot 4}{3 \cdot 4}$$
$$\frac{9}{12} + \frac{7}{12} + \frac{8}{12}$$
$$\frac{24}{12}$$



$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$2$$



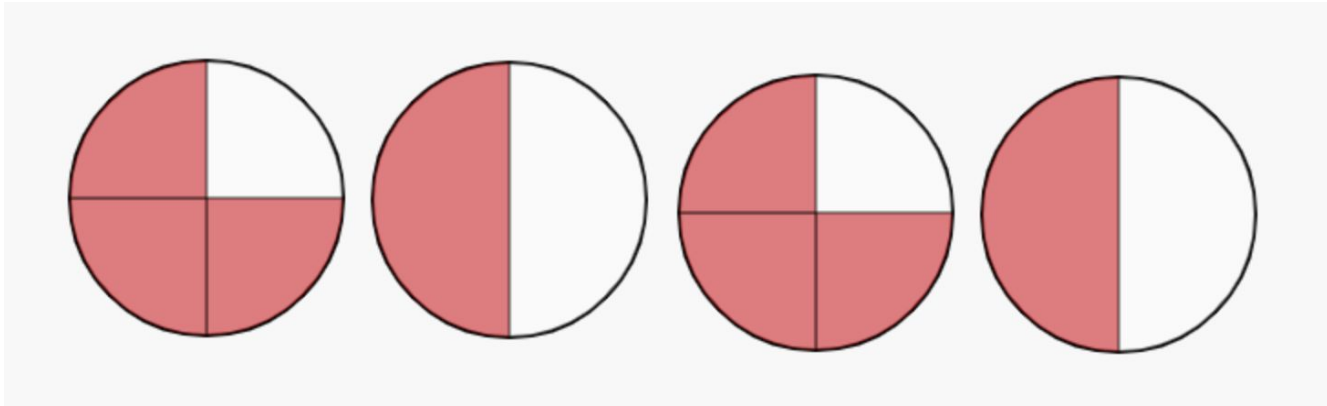
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$
$$2$$

Connecting to Whole Numbers

$$7 + 8$$

$$7 + 8$$

Fraction Talk #3

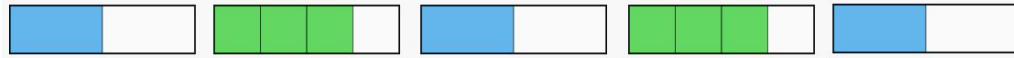


Fraction Talk Starting with Symbols



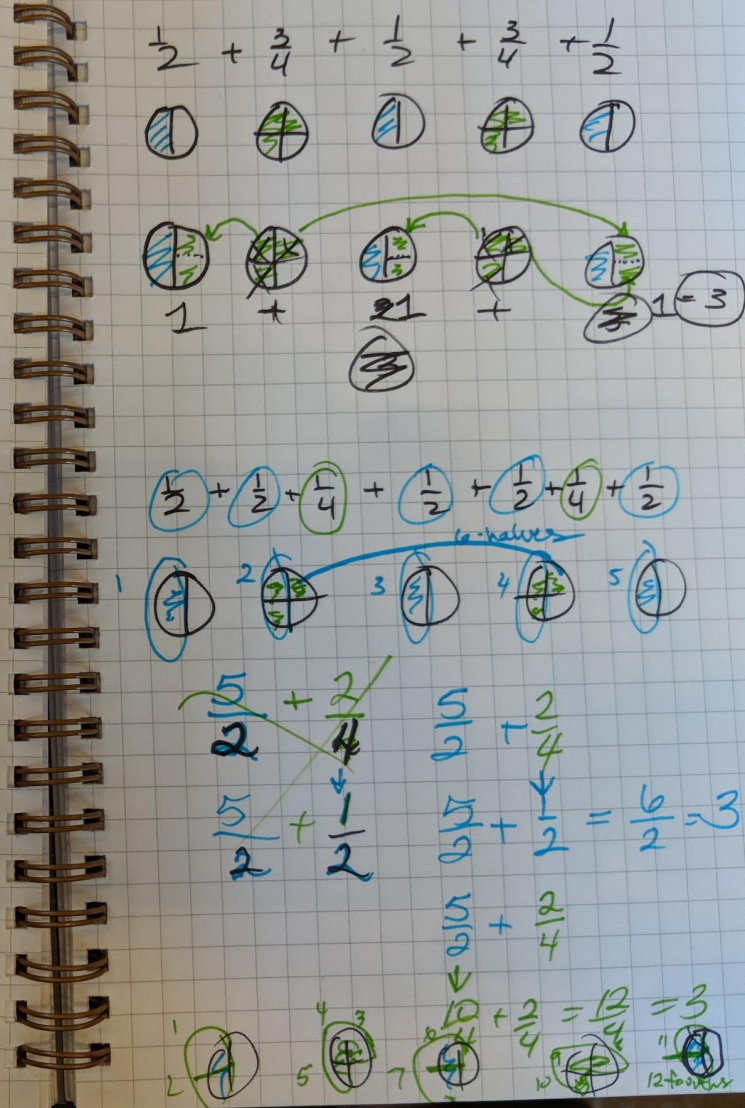
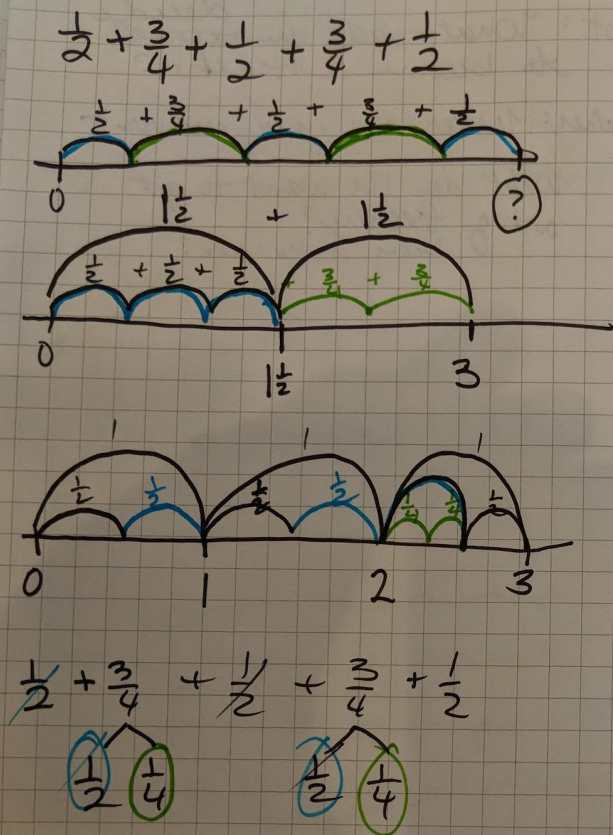
$$\frac{1}{2} + \frac{3}{4} + \frac{1}{2} + \frac{3}{4} + \frac{1}{2}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{1}{2} + \frac{3}{4} + \frac{1}{2}$$

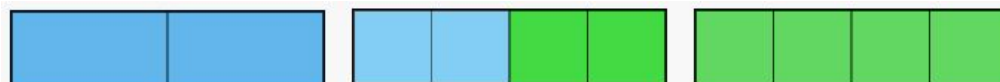
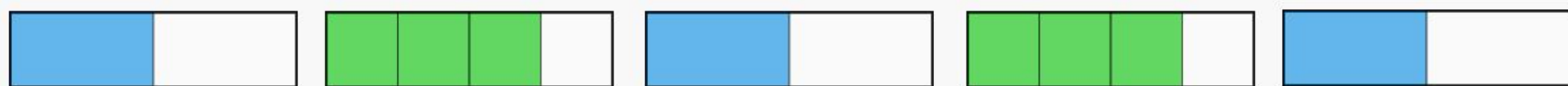


Number Talk Planning

$$\frac{1}{2} + \frac{3}{4} + \frac{1}{2} + \frac{3}{4} + \frac{1}{2}$$



$$\frac{1}{2} + \frac{3}{4} + \frac{1}{2} + \frac{3}{4} + \frac{1}{2}$$



Number Talk Planning and Practice

<u>Strategy 1</u>	<u>Strategy 2</u>
<u>Strategy 3</u>	<u>Strategy 4</u>

$$5\frac{1}{8} - 1\frac{3}{4}$$

Strategy 1

Strategy 2

Strategy 3

Strategy 4

$$5\frac{1}{8} - 1\frac{3}{4}$$

Fraction Number Sense

- Reasoning around benchmarks.
- Flexibility using equivalence and unit.
- Using and developing strong mental images.
- Searching and selecting strategic numbers.
- Thinking before acting.

Thank you for coming!

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Come see us later today

Event Title: 166 - Connecting Function Representations by Looking for and Making Use of Structure in In-Out Tables

Upload Handout

Session Type: Session

Time: 1:30 PM - 2:30 PM

Location: Hilton Bayfront, Sapphire 411

Role: Lead Speaker

Event Title: 224 - Minus Times Minus Is Plus: The Reason for This We Will Discuss

Session Type: Session

Time: 3:00 PM - 4:00 PM

Location: Hilton Bayfront, Sapphire KL

Role: Co-Speaker