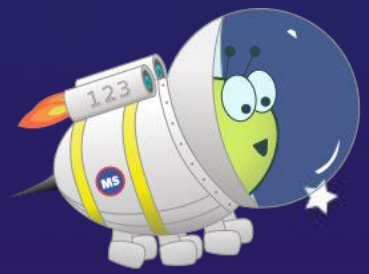
Quiz: **QFXKEUN**

MathShed

Lesson 4: To be able to use fractions and mixed numbers within number sequences



Term: Spring **Unit:** Block 2 – Fractions **Lesson:** 4

To be able to use fractions and mixed numbers within number sequences

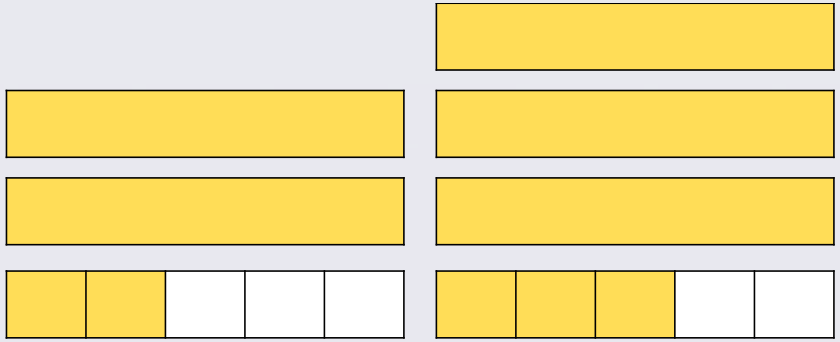
Success criteria:

- ✓ I can count up and down by given fractions, using pictorial representations to describe number sequences
- ✓ I can explain my reasoning when counting up and down by given fractions, and when using pictorial representations to describe number sequences

Click the link to hear me talk through this question:
https://www.loom.com/share/1a56ee497527477698c20cedf30992f3

Starter:

If the representations shown below are the second and third steps in a sequence, what would come before and what would come afterwards?

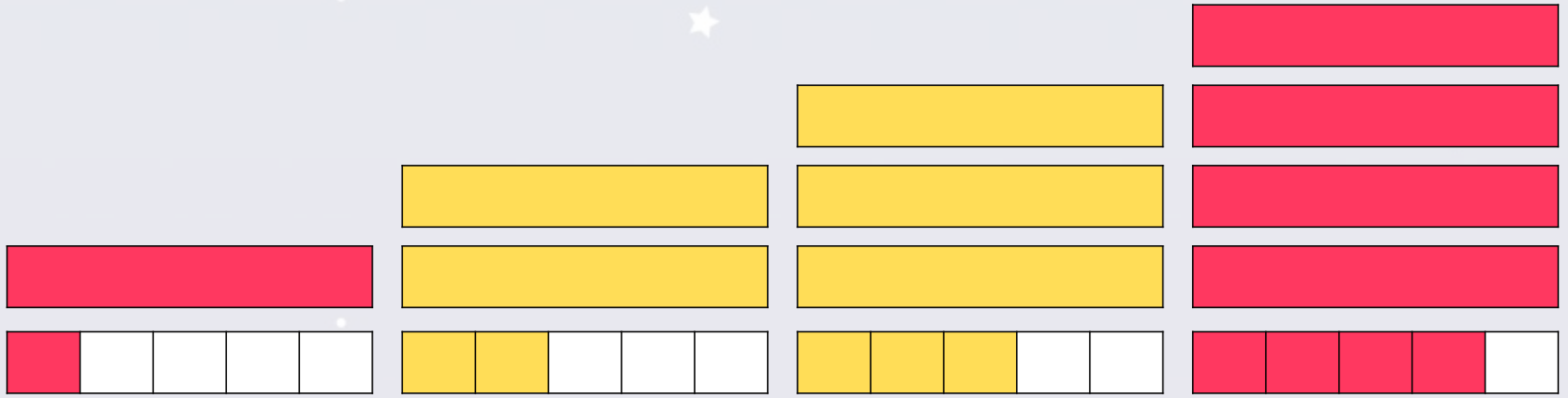


Explain your answer.

Answers:

Starter:

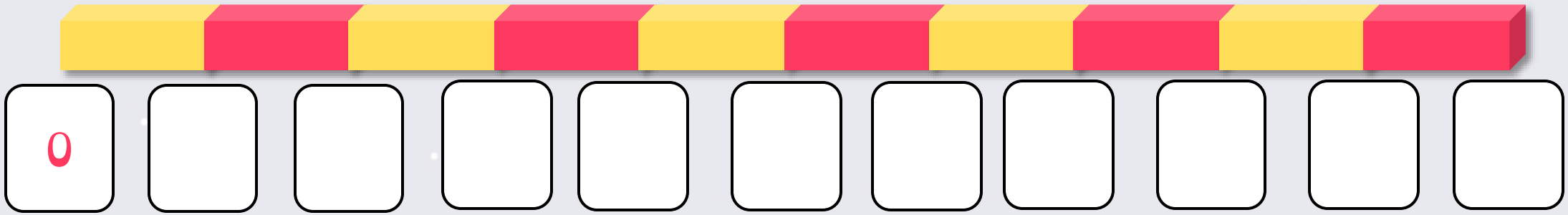
If the representations shown below are the second and third steps in a sequence, what would come before and what would come afterwards?



A whole bar and a fifth of a bar would come before and four whole bars and four fifths of a bar would come afterwards as there is an increase of one whole and one fifth between the second and third step in the sequence.

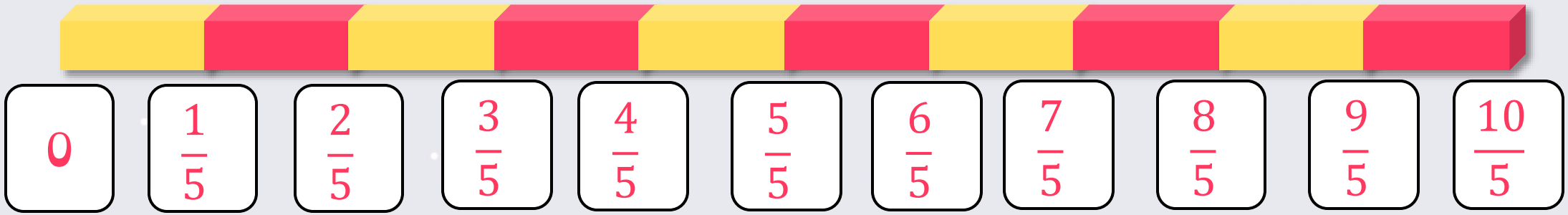
Click the link to hear me talk through the answers: https://www.loom.com/share/e5e472c2bef04a6098fa17fad290b21f

Use the counting stick below to count up from 0 in fifths.



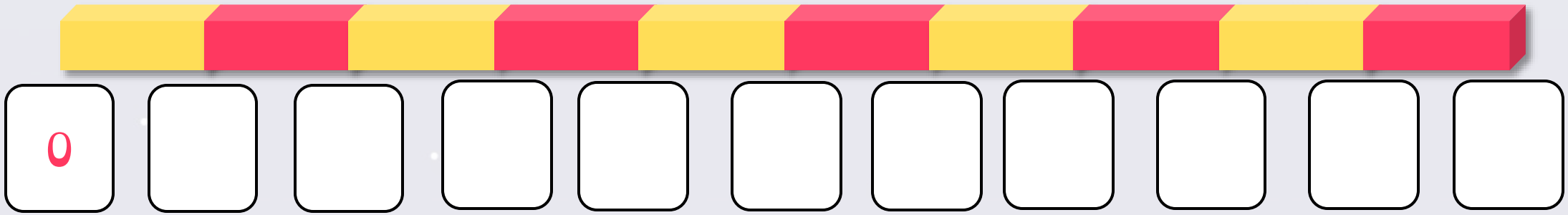
Answers:

Use the counting stick below to count up from 0 in fifths.



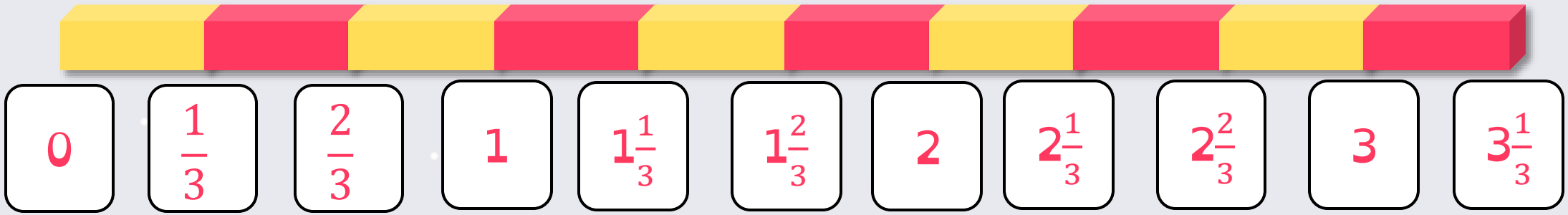
Have a go at this one on your own before you watch my video clip. Remember, if we are counting in thirds, there will be three in a whole one.

Use the counting stick below to count up from 0 in thirds.



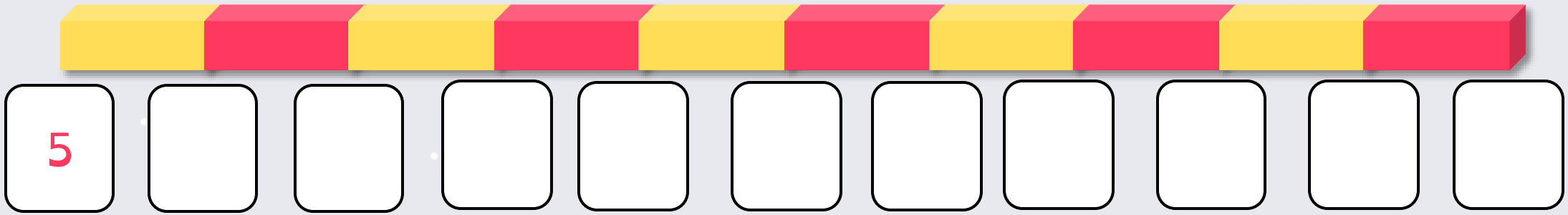
Answers:
https://www.loom.com/share/f850f43e9fba470ca717b7d02ba87c7a

Use the counting stick below to count up from 0 in thirds.



Click my link to watch me talk through this question.
https://www.loom.com/share/c62bccaeafa044e79f504dd94b4b68f3

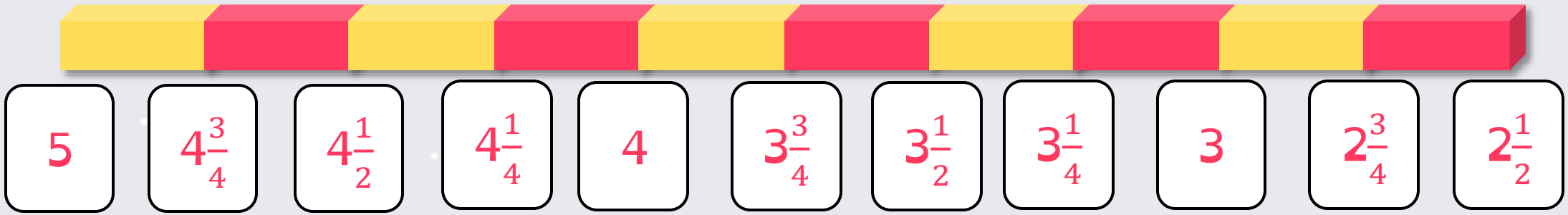
Use the counting stick below to count down from 5 in quarters.



Answers:

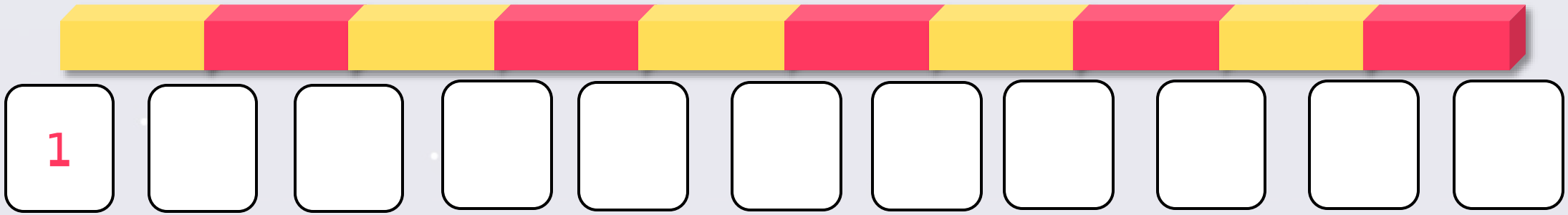
Talking Time:

Use the counting stick below to count down from 5 in quarters.



Click the link to see my think aloud:
https://www.loom.com/share/61fad01f859d4b92a8b81e1862df8393

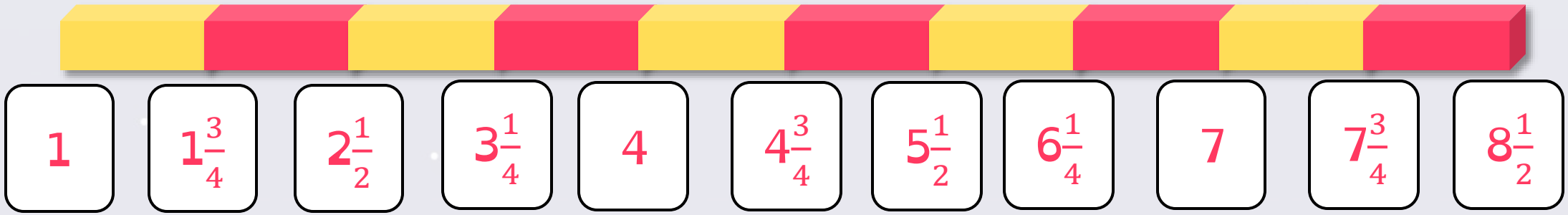
Use the counting stick below to count up from 1 in jumps of three quarters.



Answers:

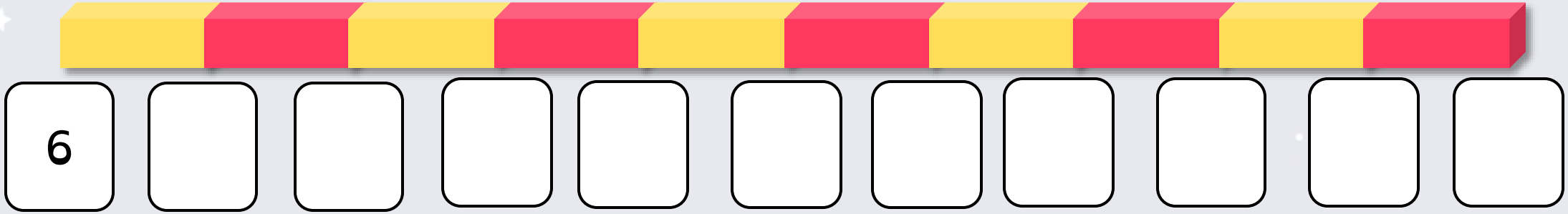
Here they have written ½ instead of 2/4.

½ and 2/4 are equivalent. They are the same.

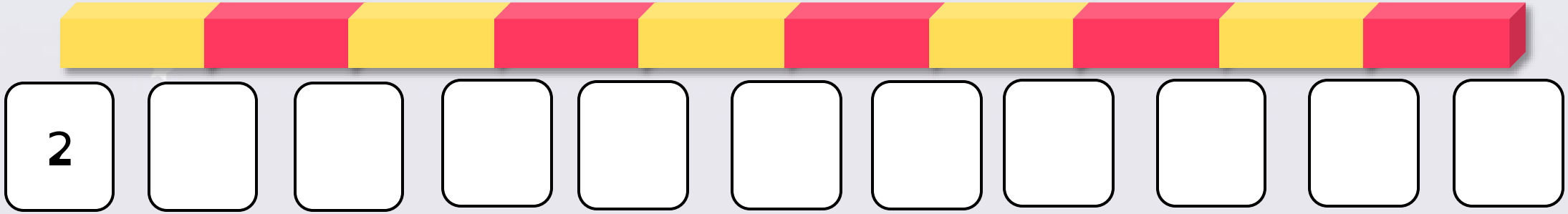


Have a go at doing these on your own.

Use the counting stick below to count down from 6 in thirds.

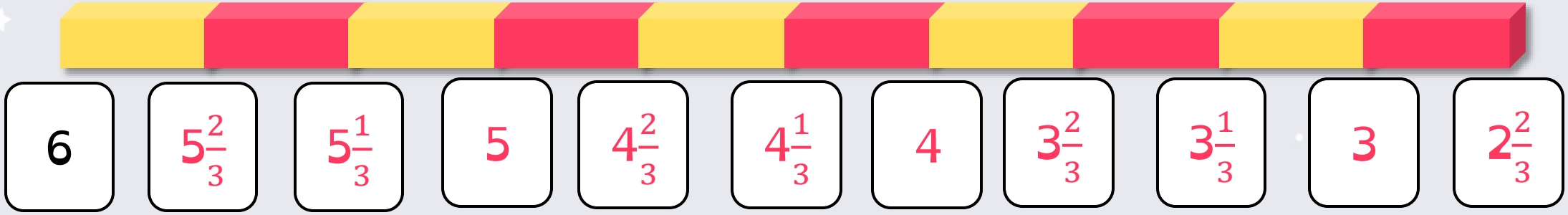


Use the counting stick below to count up from 2 in jumps of two thirds.

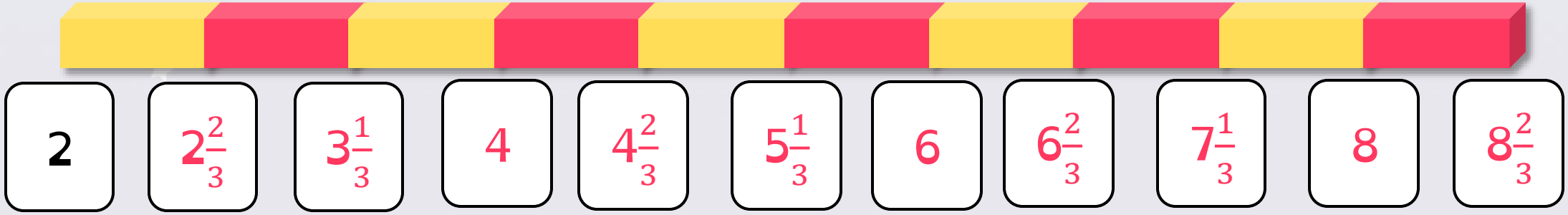


Answers:

Use the counting stick below to count down from 6 in thirds.

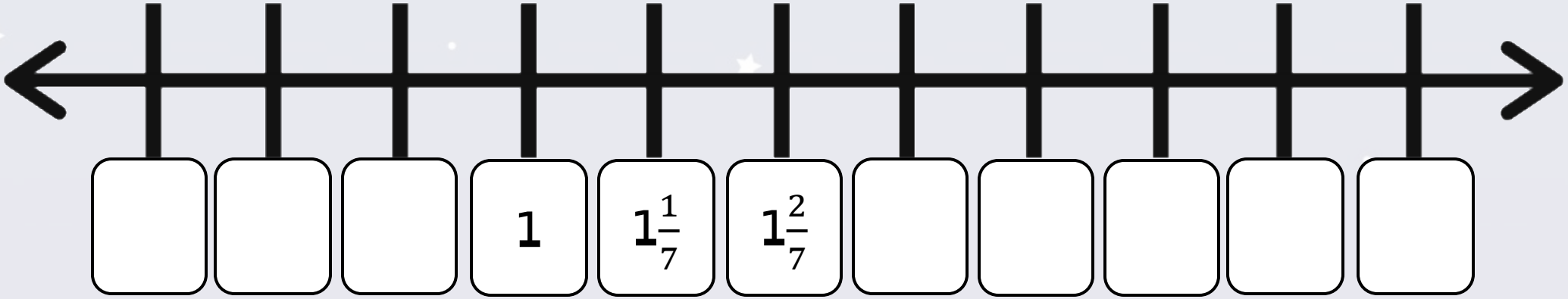


Use the counting stick below to count up from 2 in jumps of two thirds.



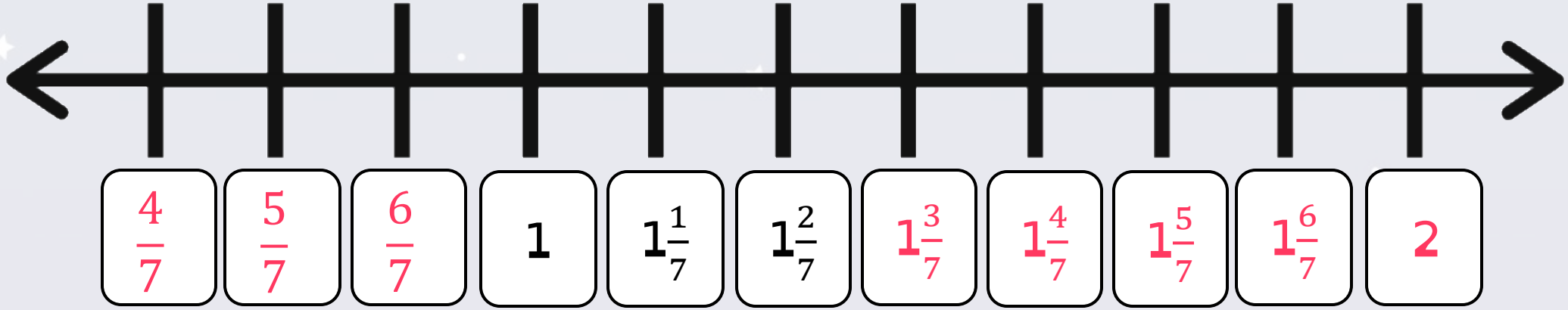
Look at the current numbers in the sequence. How many are they increasing by each time? How much will you have to add or take away each time?

Fill in the blanks below.



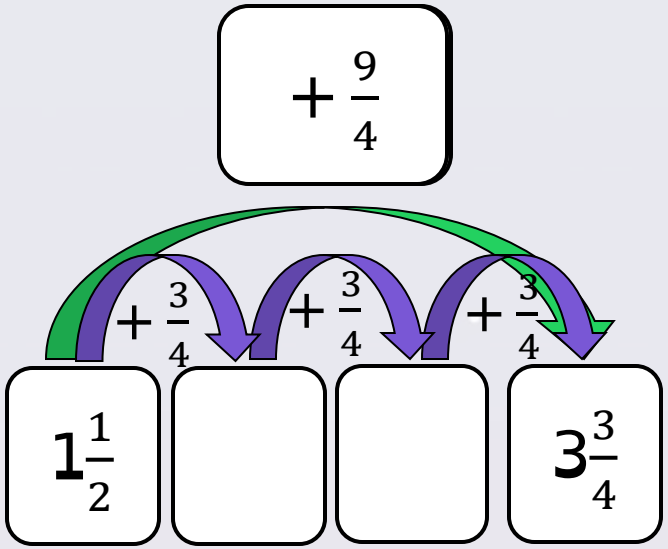
Answers:

I could see from the first three numbers that they were adding 1/7 each time. I either added or took away 1/7 each time.



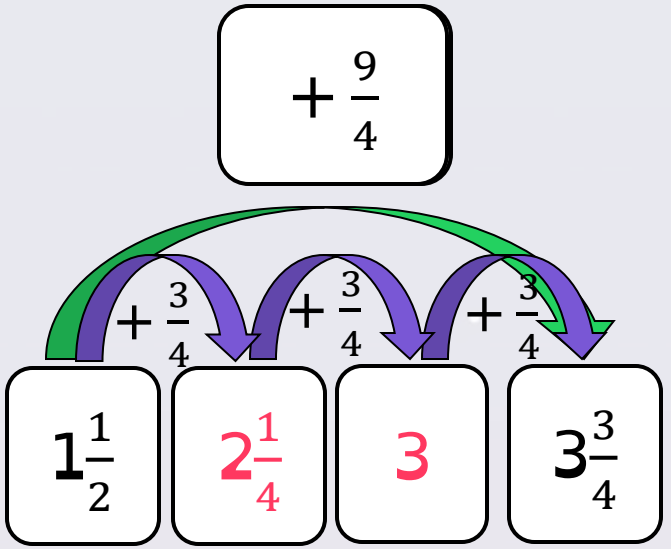
Click the link to hear my think aloud:
https://www.loom.com/share/dafb123b28664bb2970f4a5303b61241

Complete the number sequence below.



Answers:

Complete the number sequence below.



Try solving these independently before looking the answers on the next slide. Drawing models could help you significantly.

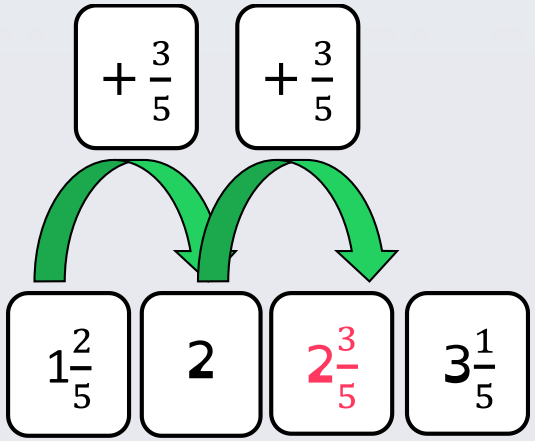
Complete the number sequences below.

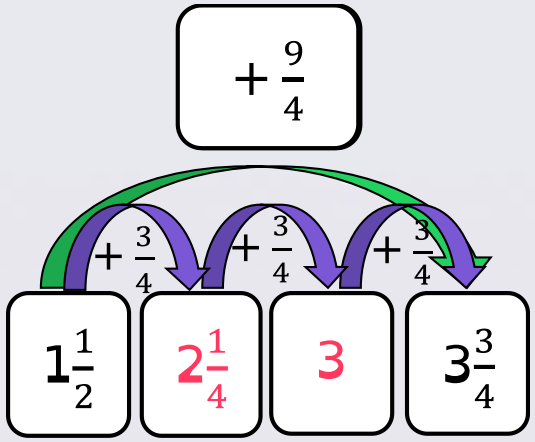
a) $1\frac{5}{9}$ | | $2\frac{4}{9}$ | $2\frac{8}{9}$

b) | $1\frac{3}{7}$ | $2\frac{1}{7}$ | $2\frac{6}{7}$

c) $1\frac{2}{5}$ | | | $3\frac{1}{5}$

d) | $2\frac{1}{2}$ | | $3\frac{5}{6}$



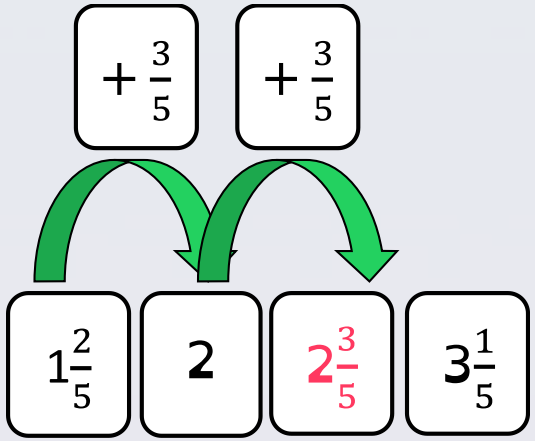
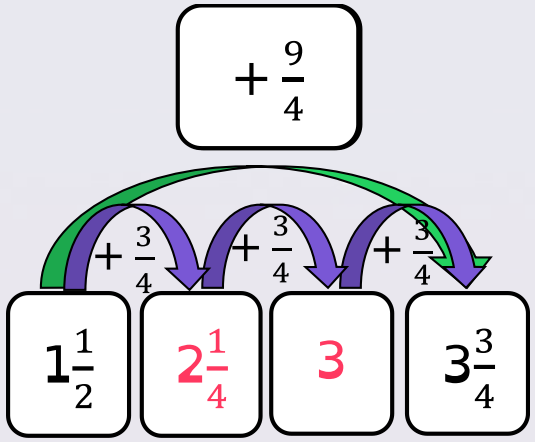


Answers:

Complete the number sequences below.

a) $1\frac{5}{9}$ | 2 | $2\frac{4}{9}$ | $2\frac{8}{9}$

b) $\frac{5}{7}$ | $1\frac{3}{7}$ | $2\frac{1}{7}$ | $2\frac{6}{7}$

c) $1\frac{2}{5}$ | 2 | $2\frac{3}{5}$ | $3\frac{1}{5}$

d) $1\frac{5}{6}$ | $2\frac{1}{2}$ | $3\frac{1}{6}$ | $3\frac{5}{6}$