

Eureka Math

1st Grade Module 1 Lesson 24

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Directions for customizing presentations are available on the next slide.



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Icons



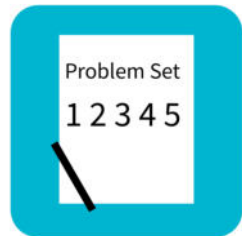
Read, Draw, Write



Learning Target



Personal White Board



Problem Set



Manipulatives Needed



Fluency



Think Pair Share



Whole Class



Individual



Partner



Small Group



Small Group Time

Materials Needed

- (T) Friendly Fact Go Around (Fluency Template),
- (T) Related Fact Ladder (Template 1),
- (T) 10 expression cards (Template 2)
 - Even though expression cards are projected during this lesson, you will still need a pile of the ones cut from Template 2
- (S) 5–12 expression cards per pair (Template 2)

Lesson 24

Objective: Practice to build fluency with facts to 10.

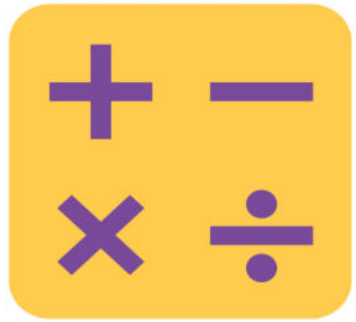
Suggested Lesson Structure

■ Fluency Practice	(15 minutes)
■ Application Problem	(7 minutes)
■ Concept Development	(30 minutes)
■ Student Debrief	(8 minutes)
Total Time	(60 minutes)



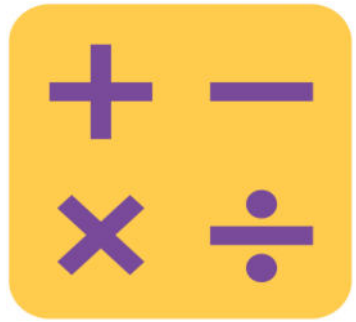


I can look for and make use of structure on the addition chart by looking for and coloring problems with the same total.



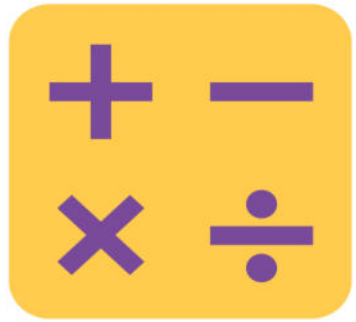
Partner Counting by Twos

You will alternate saying numbers aloud to count by twos from 0 to 20 and back.

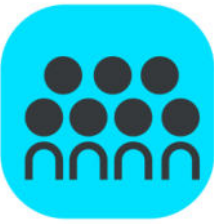


Cold Call: 2 More and 2 Less

I'll say number aloud. You think about the number that is 2 more. I will cold call you to say the number as quickly as possible!



Friendly Fact Go Around



Let's practice our facts!

A STORY OF UNITS

Lesson 24 Fluency Template 1•1

$2 + 1 = \square$

$3 + 1 = \square$

$5 + 1 = \square$

$4 + 1 = \square$

$6 + 1 = \square$

$9 + 1 = \square$

$2 + 2 = \square$

$2 + 3 = \square$

$5 + 5 = \square$

$3 + 3 = \square$

$4 + 4 = \square$

$4 + 5 = \square$

$0 + 1 = \square$

$1 + 3 = \square$

$1 + 1 = \square$

$2 + 2 = \square$

$7 + 1 = \square$

$3 + 3 = \square$

$1 + 5 = \square$

$5 + 5 = \square$

$3 + 4 = \square$

$8 + 1 = \square$

$4 + 4 = \square$

$5 + 4 = \square$

Application Problem

The teacher told Henry to get 8 linking cubes. Henry took 4 blue cubes and 3 red cubes. Does Henry have the correct amount of linking cubes? Use pictures or words to explain your thinking.

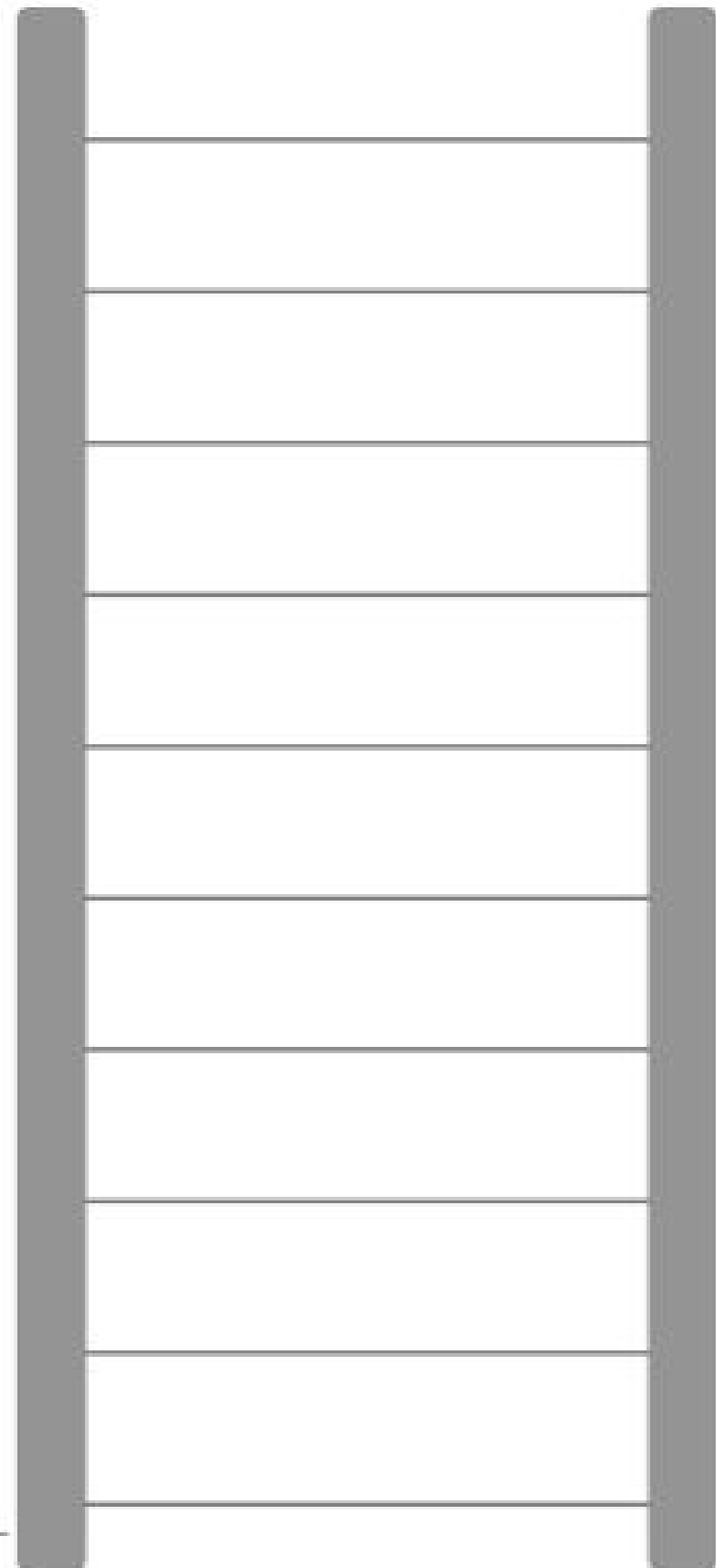


Concept Development

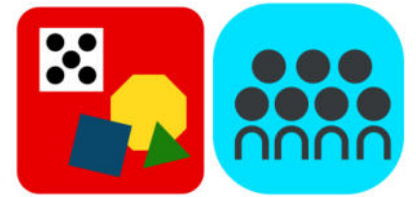


$$\boxed{3 + 1} \quad \boxed{2 + 1}$$

We just found the total of each of the expressions when we played Friendly Fact Go Around.

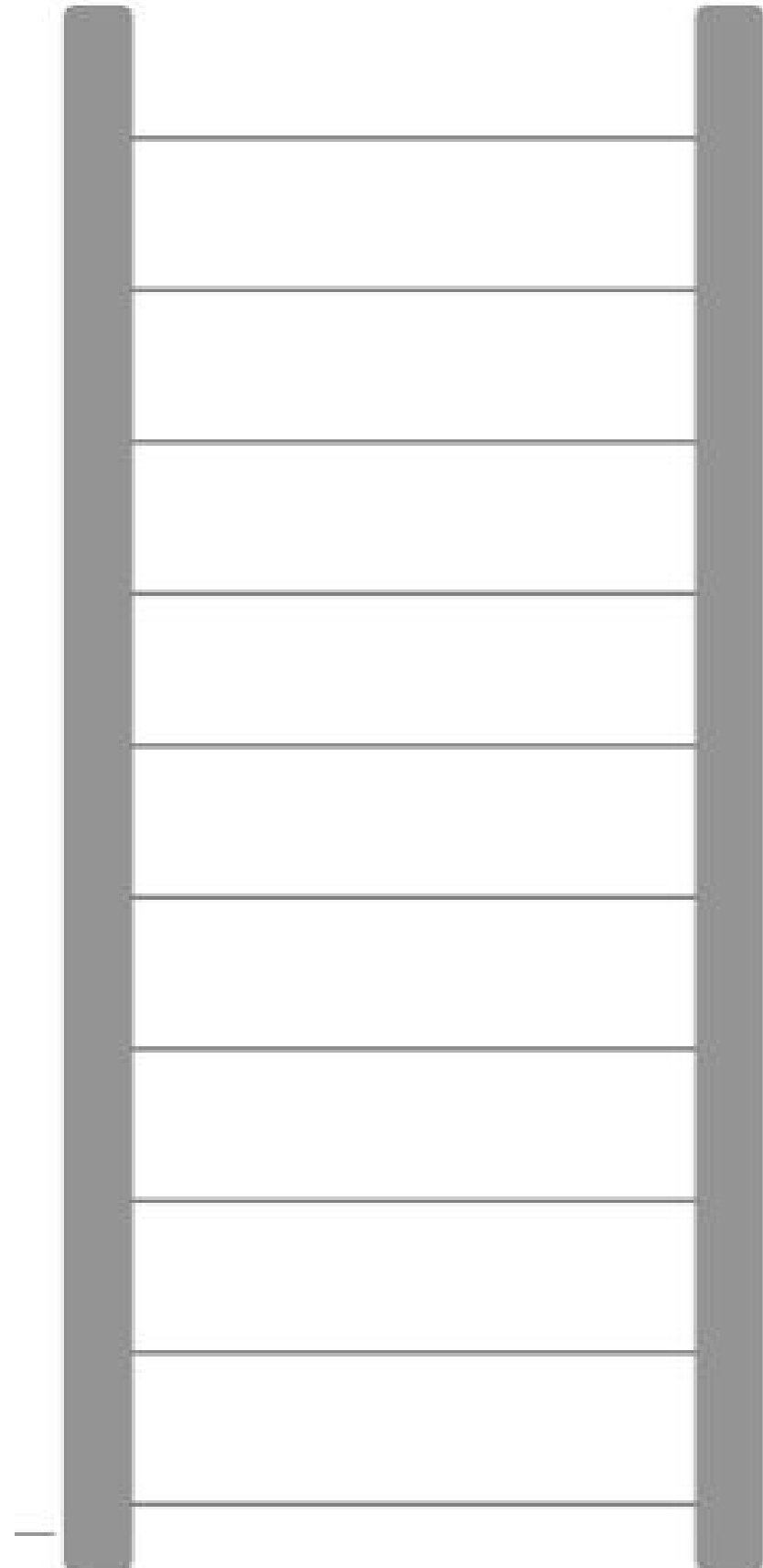


Concept Development



$$\boxed{3 + 1} \quad \boxed{2 + 1}$$

How are
 $3 + 1$ and $2 + 1$
alike? How are they
related to each
other?

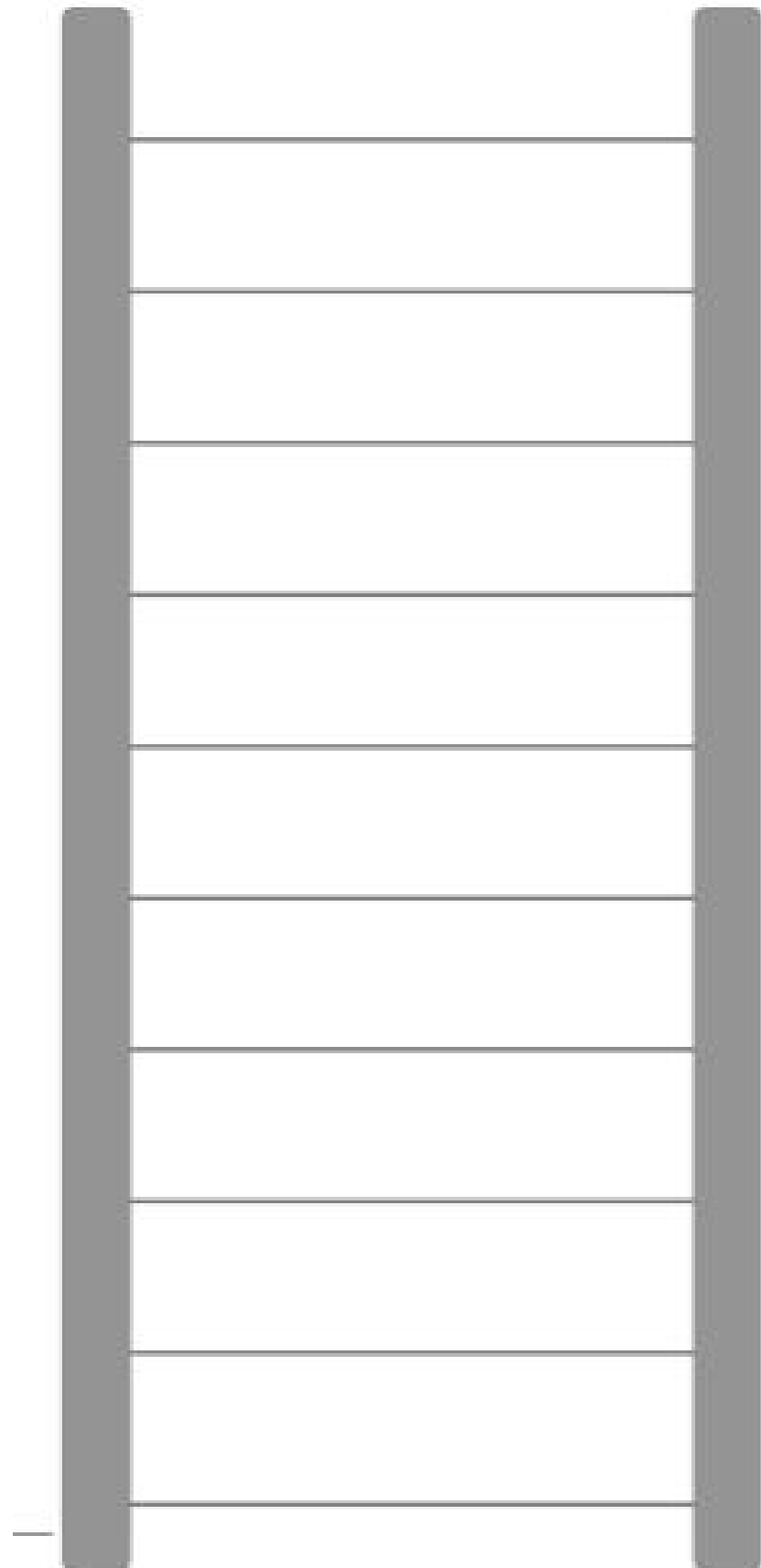


Concept Development

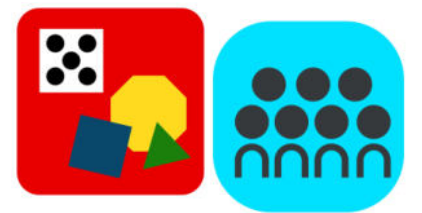


$$\boxed{3 + 1} \quad \boxed{2 + 1}$$

They both are adding
1 to a number.

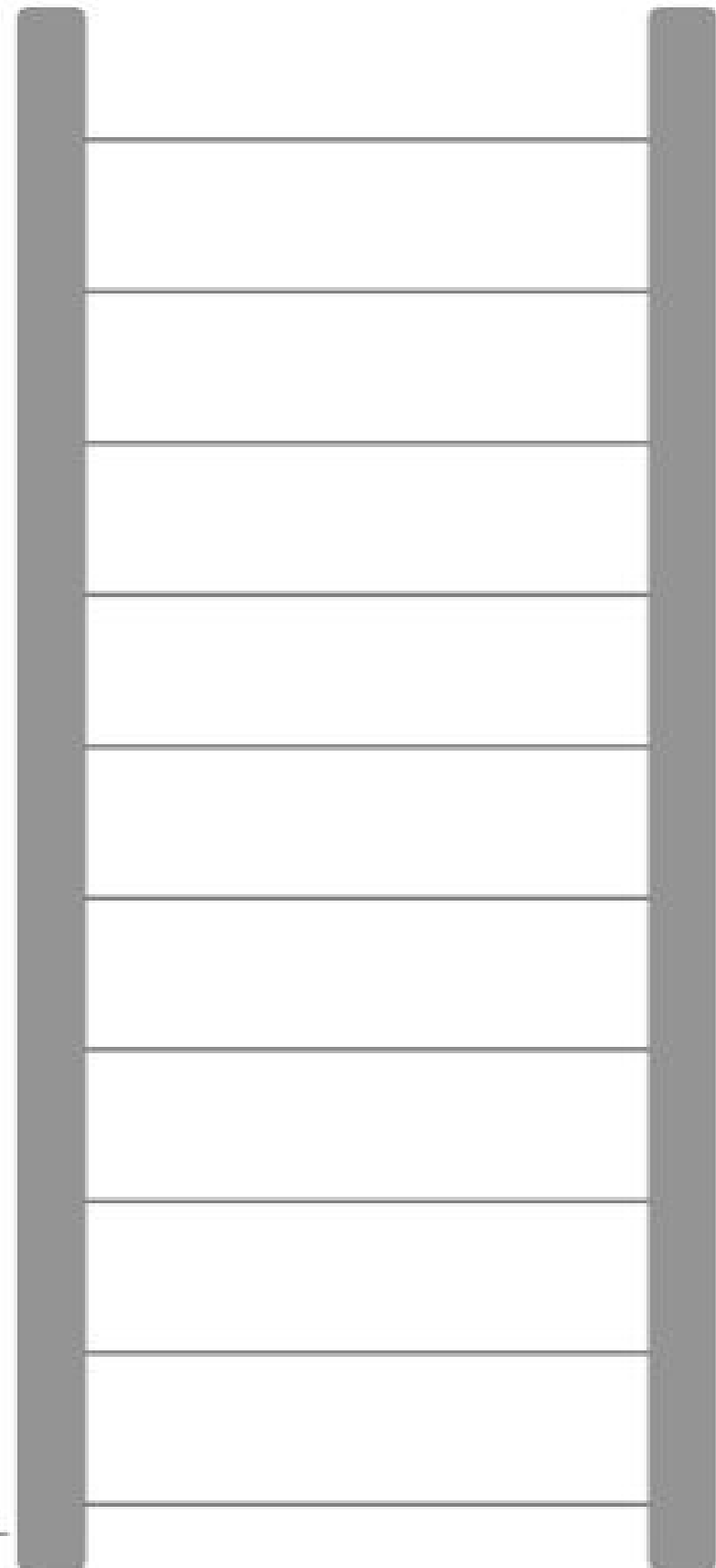


Concept Development



$$\boxed{3 + 1} \quad \boxed{2 + 1}$$

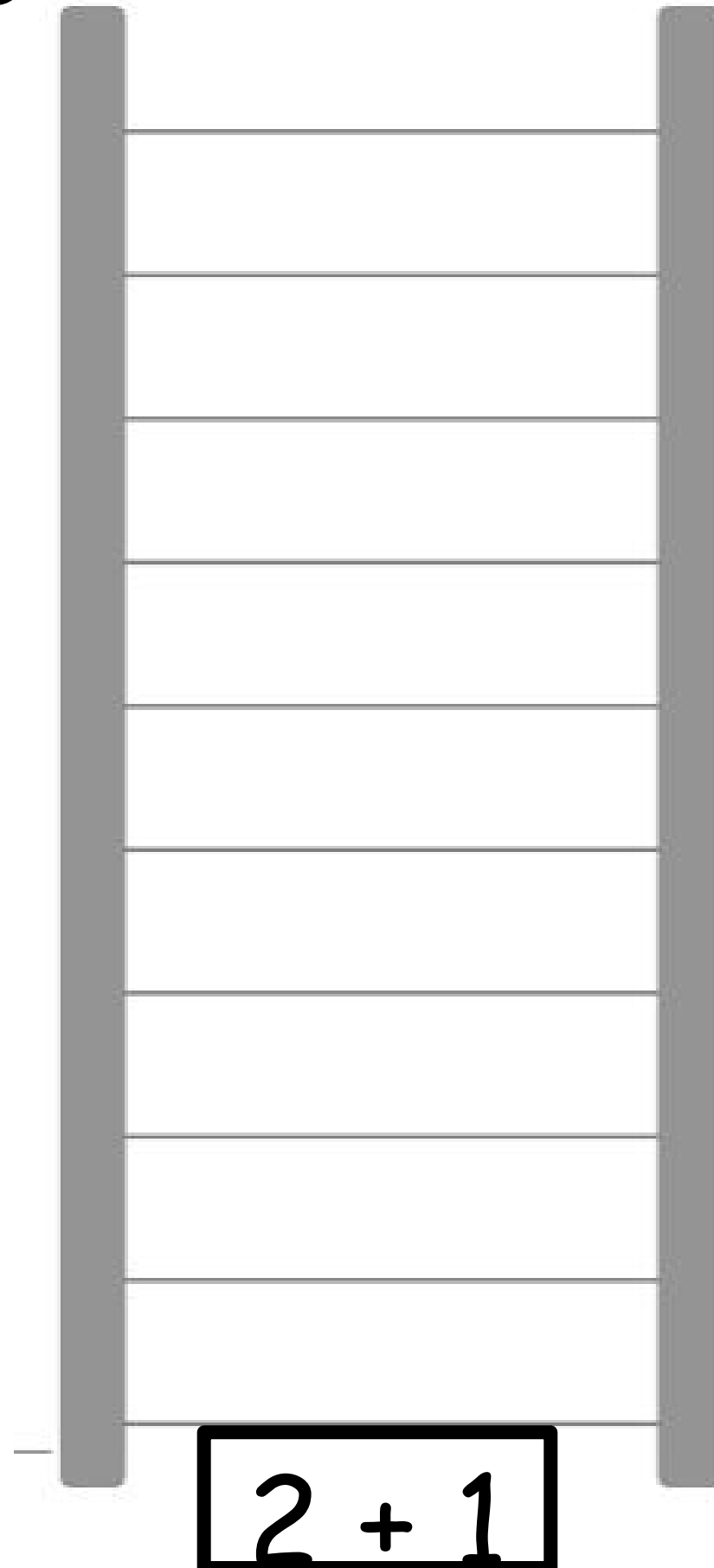
What happens when you add 1 to a number? Use $3 + 1$ and $2 + 1$ as your examples to explain.



Concept Development

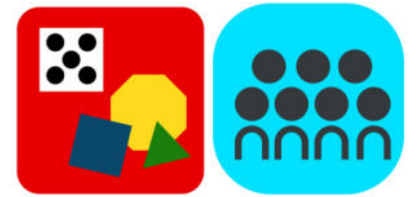


We're going to make a
Related Fact Ladder.
Let's look at our
expression cards for an
expression that might be
related to $2 + 1$ in
some way.



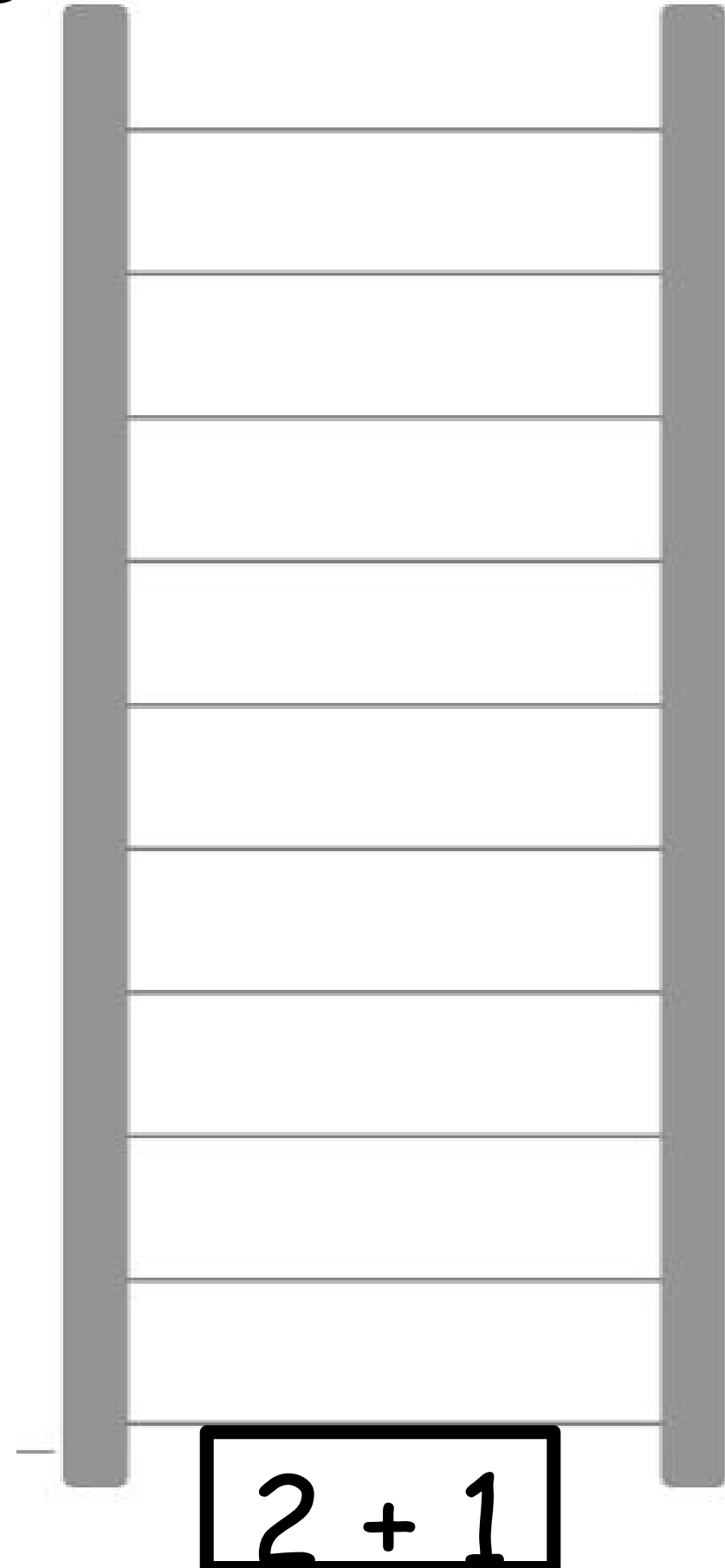
$$2 + 1$$

Concept Development



$$2 + 2$$

How about $2+2$? How is $2+2$ related to $2 + 1$?



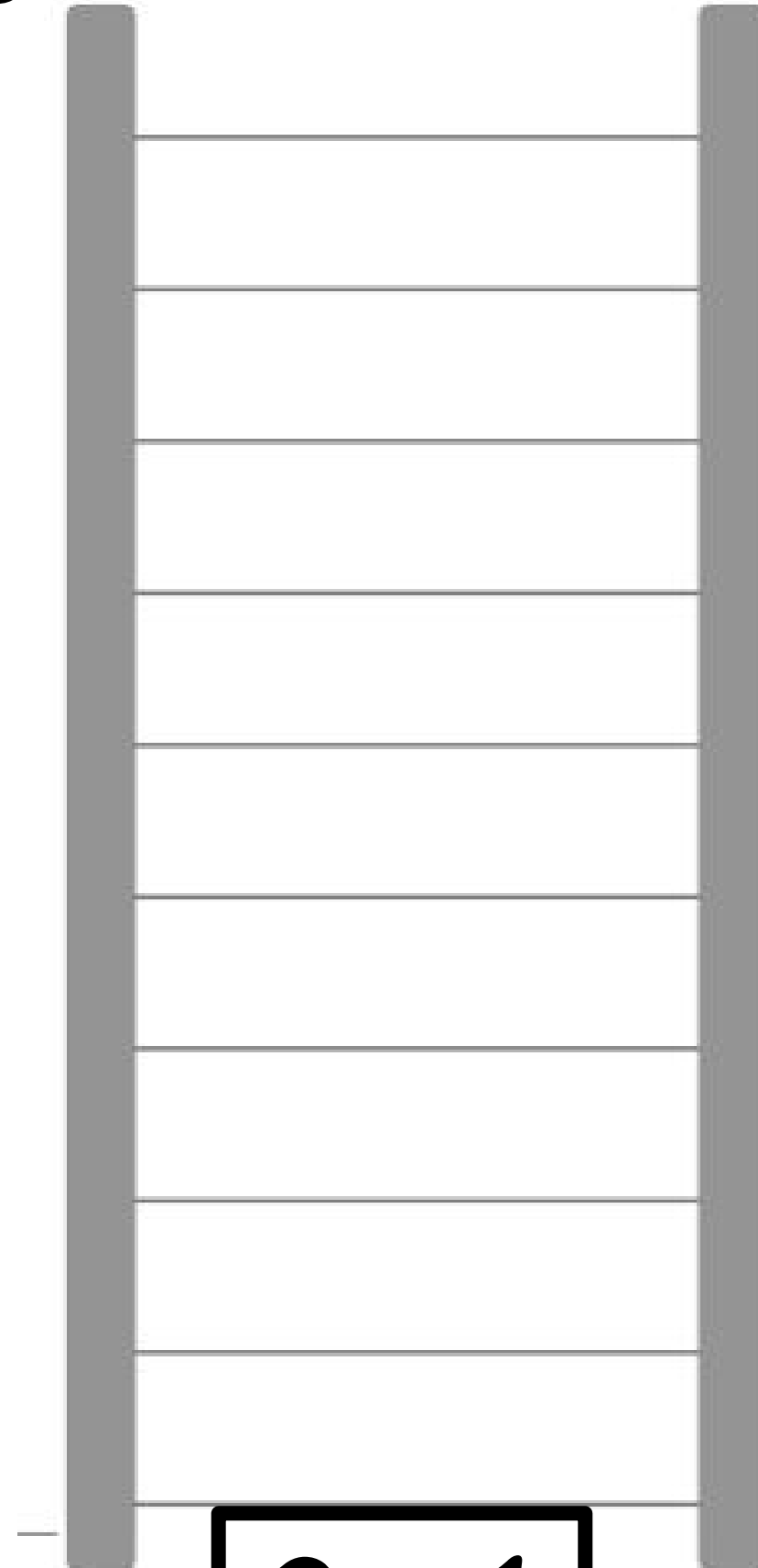
$$2 + 1$$

Concept Development



$$2 + 2$$

$2+2$ is one more than
 $2+1$.

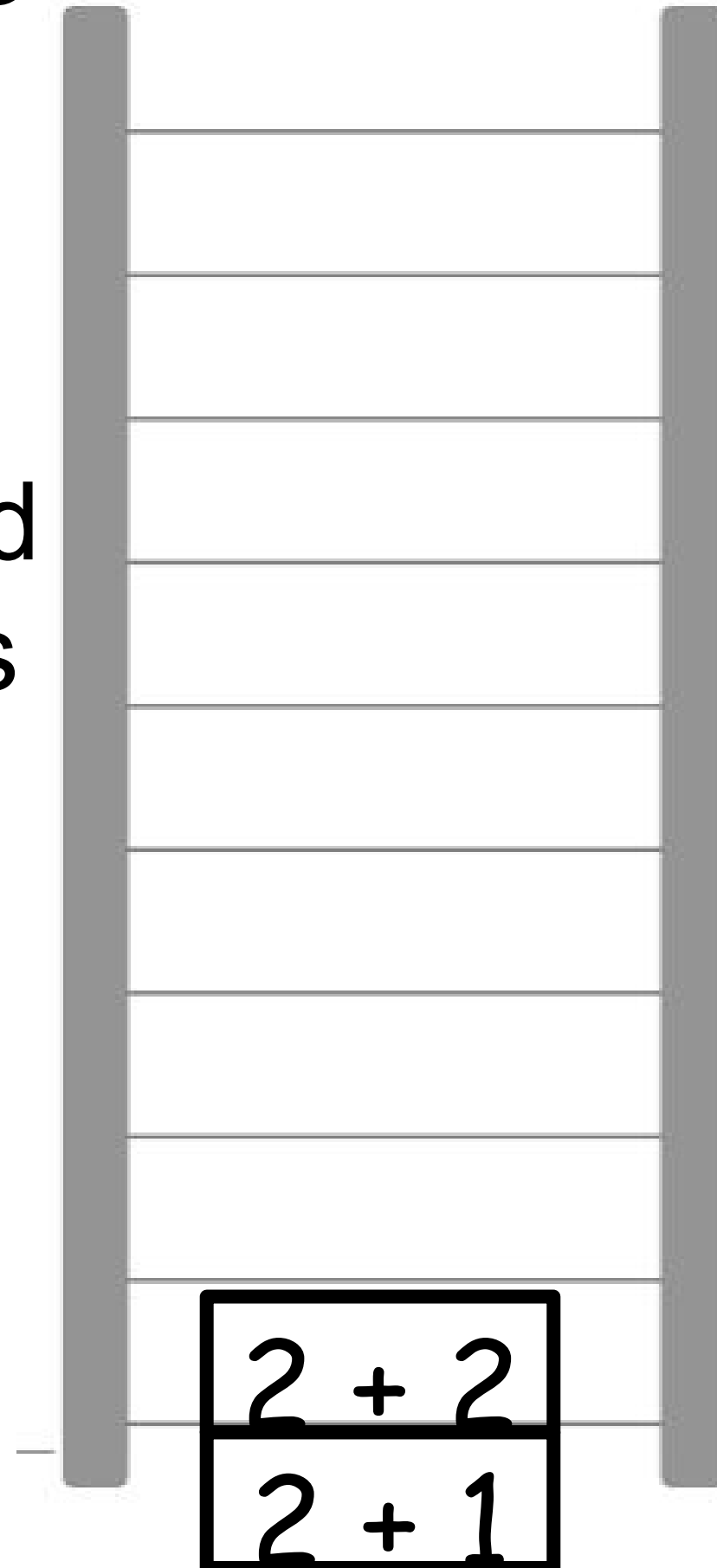


$$2 + 1$$

Concept Development



Find a card that is related to $2 + 2$. Explain how it is related.



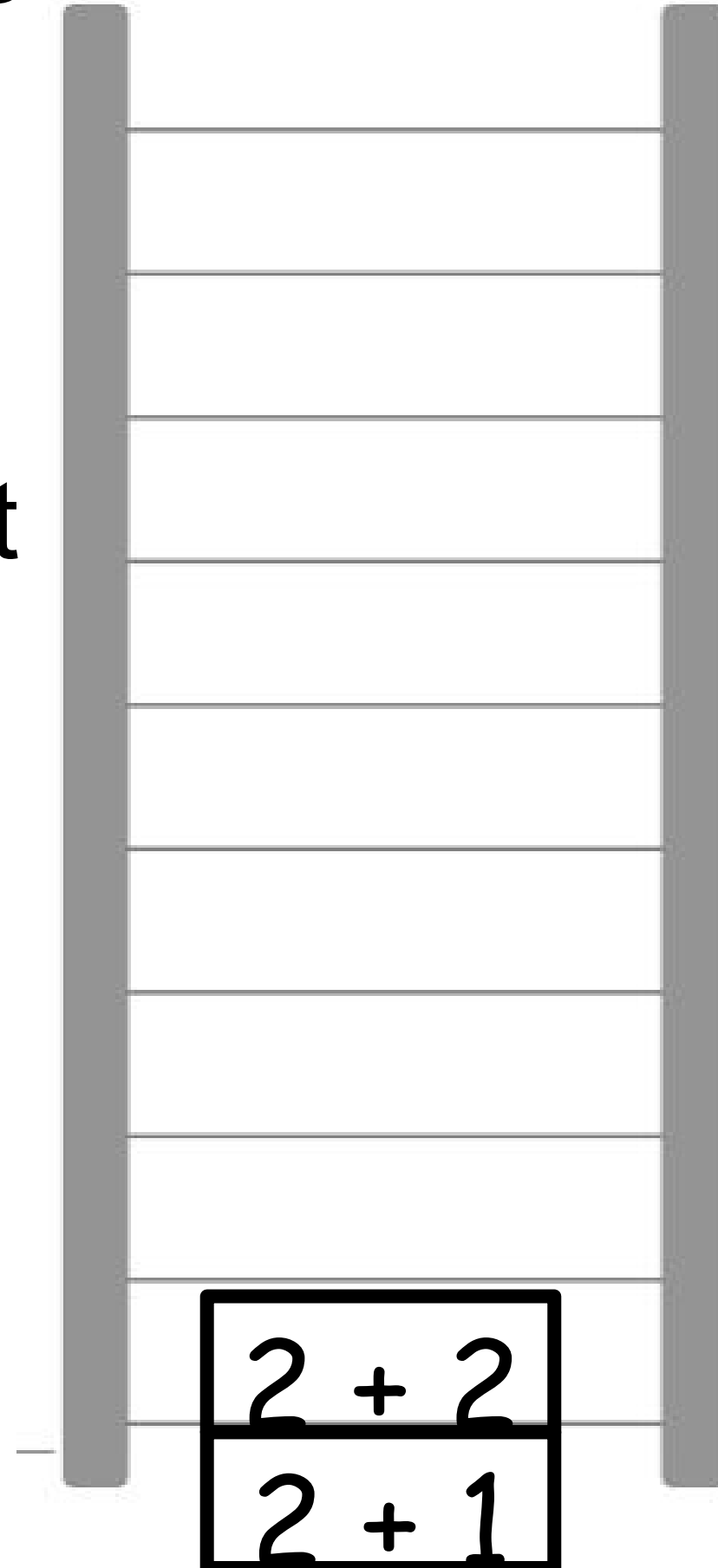
$$\begin{array}{|c|} \hline 2 + 2 \\ \hline 2 + 1 \\ \hline \end{array}$$

Concept Development



$$3 + 3$$

Here's $3 + 3$. It's the next doubles fact!

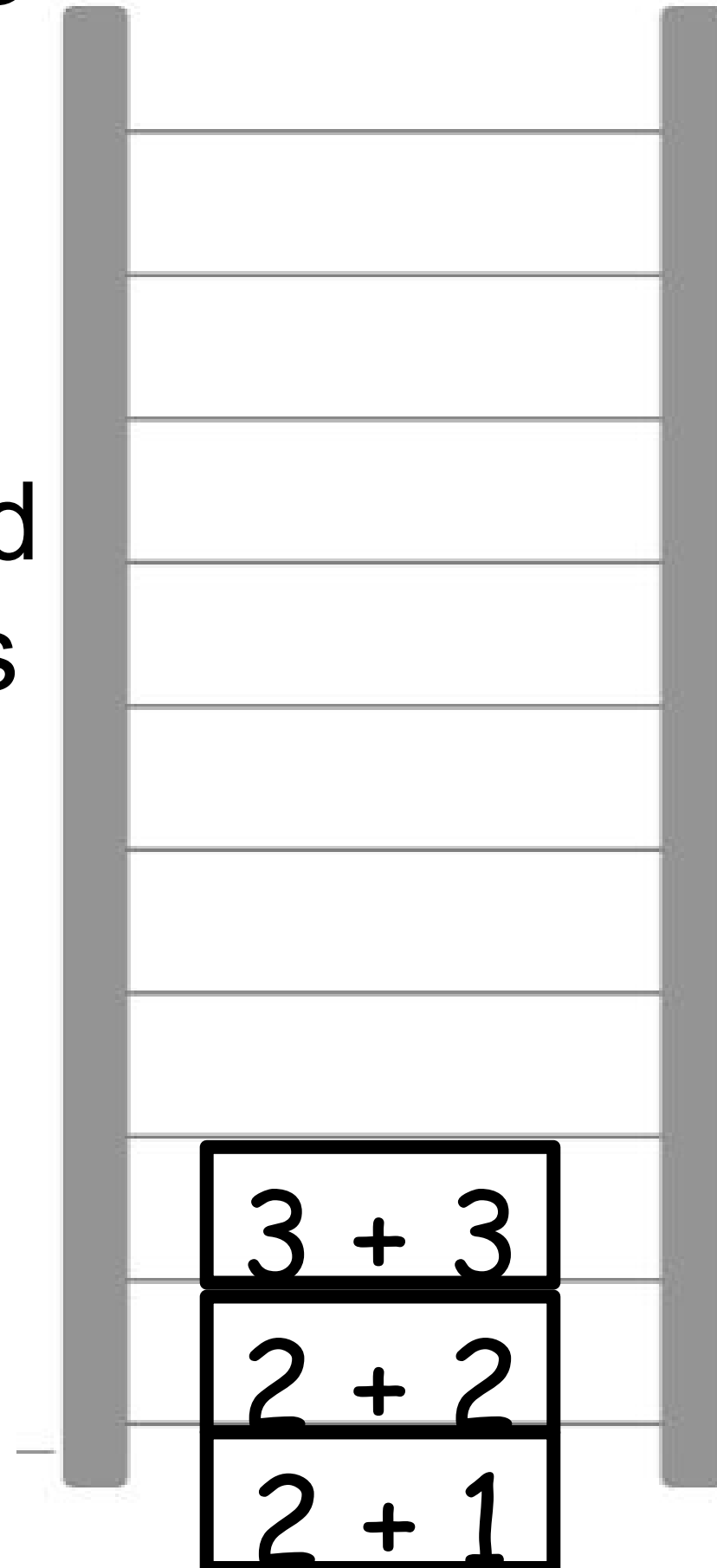


$$2 + 2$$
$$2 + 1$$

Concept Development



Find a card that is related to $3 + 3$. Explain how it is related.



$$3 + 3$$

$$2 + 2$$

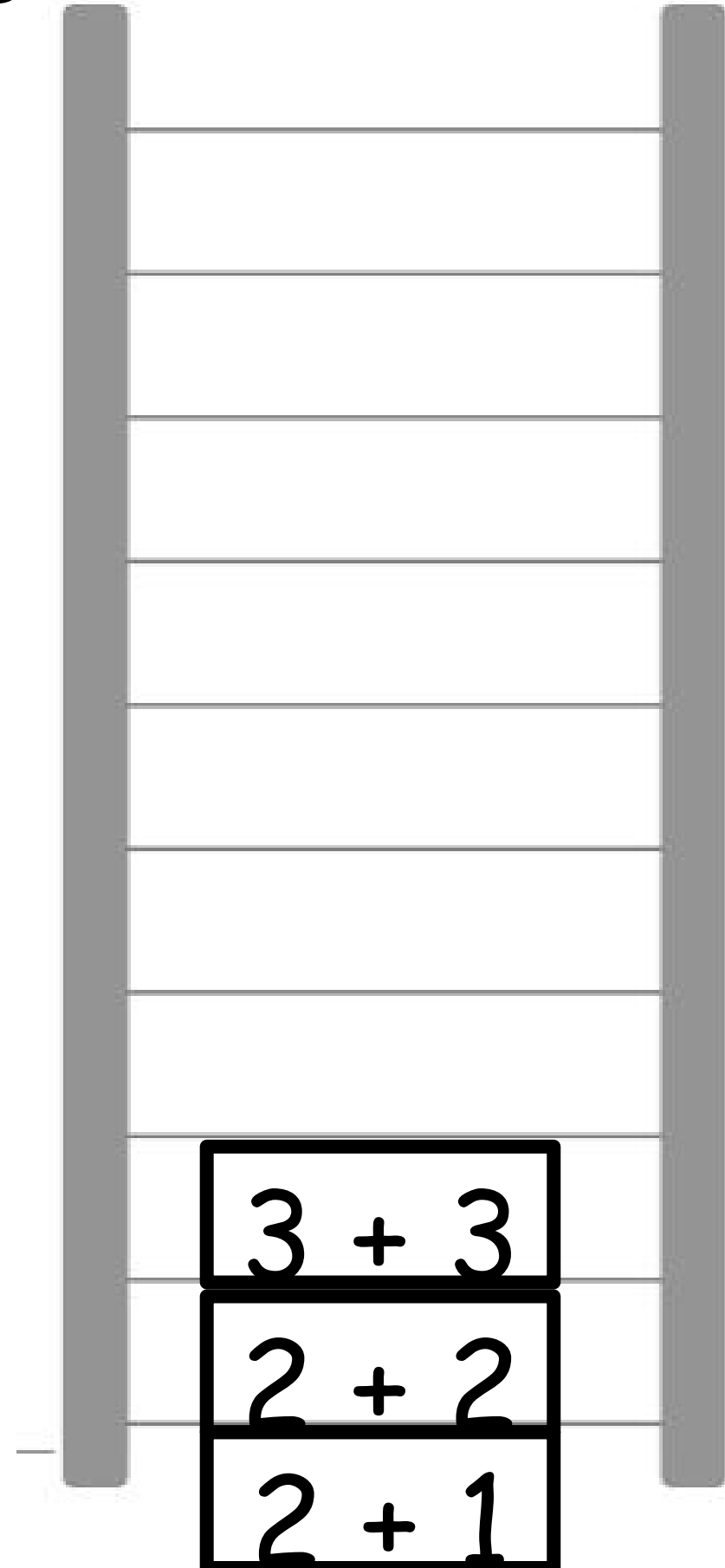
$$2 + 1$$

Concept Development



$$3 + 2$$

Here's $3 + 2$! It's a
doubles plus 1 fact!



$$3 + 3$$

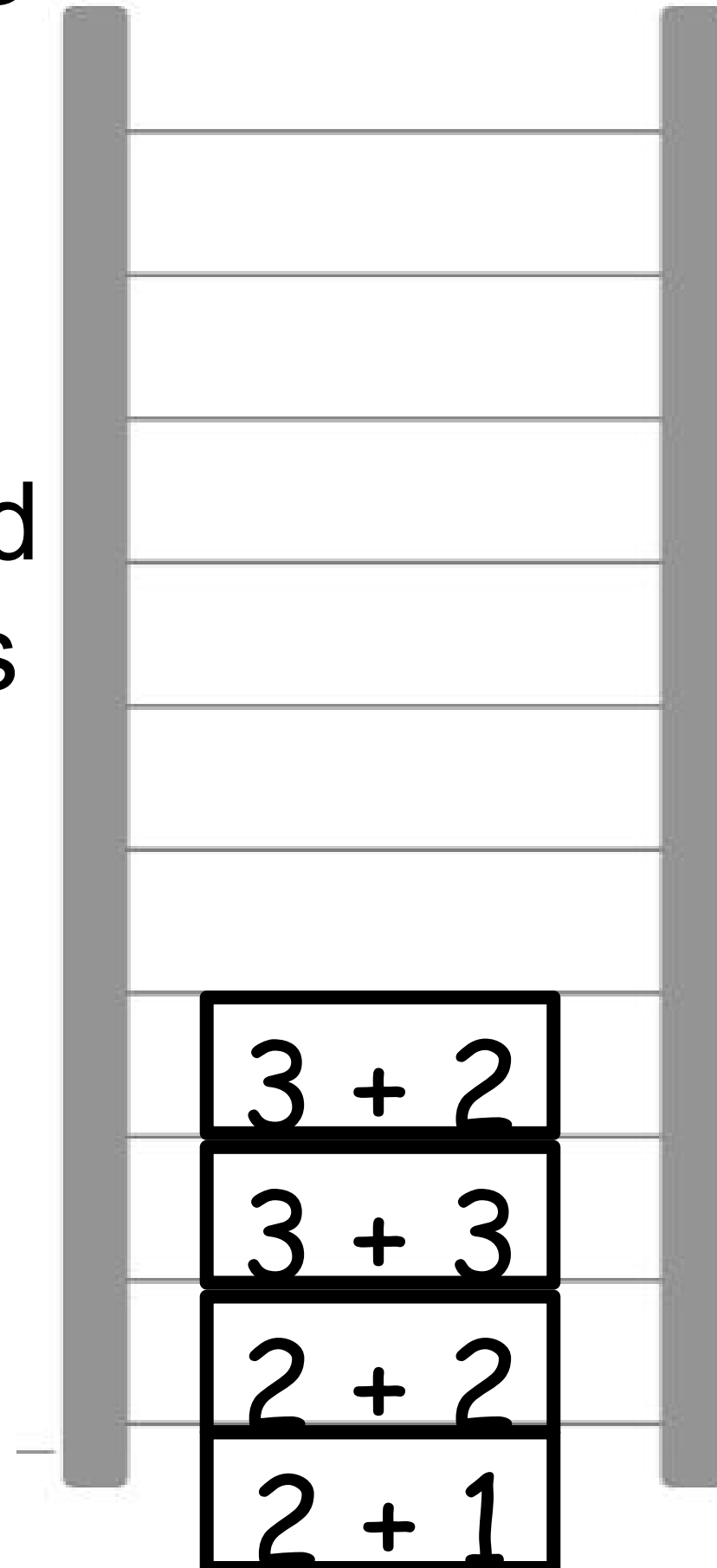
$$2 + 2$$

$$2 + 1$$

Concept Development



Find a card that is related to $3 + 2$. Explain how it is related.

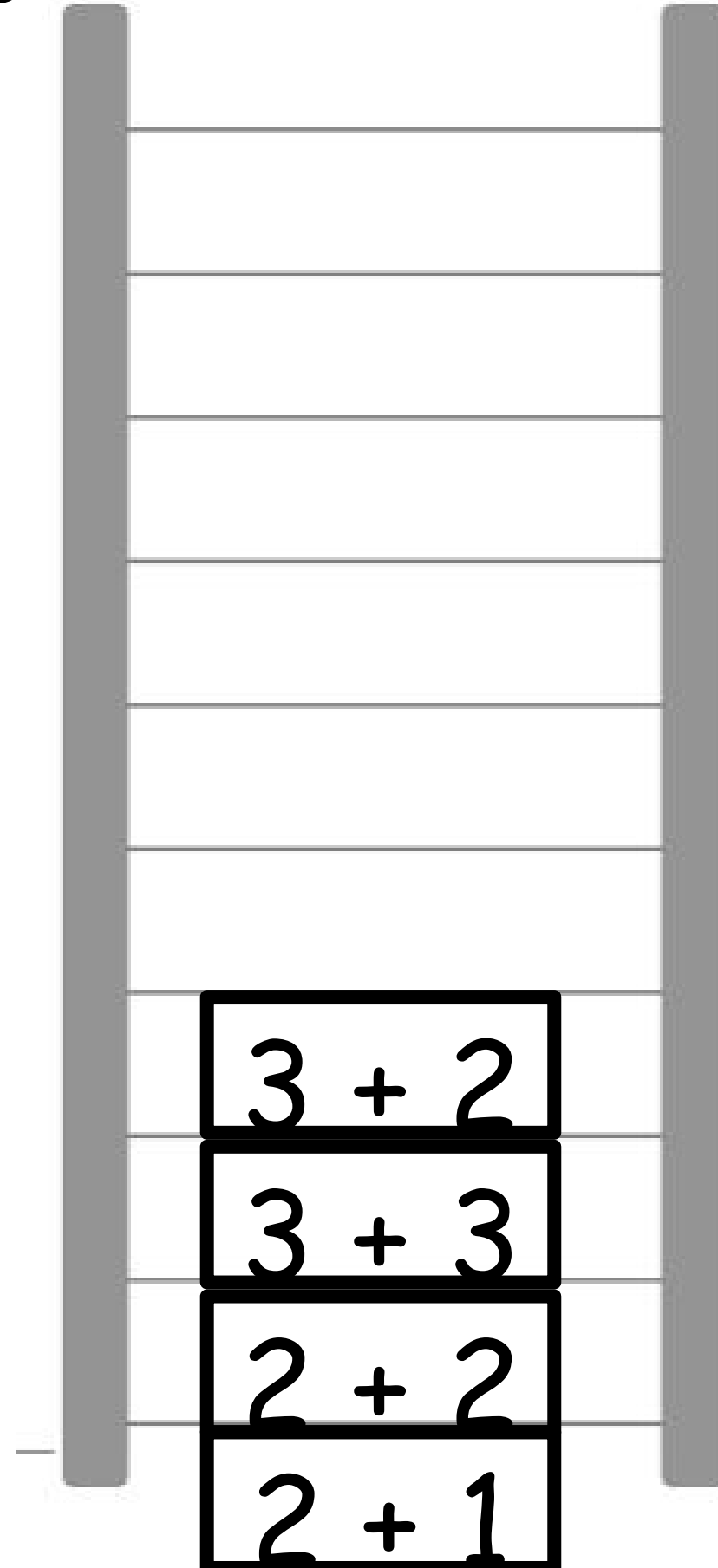


Concept Development



$$2 + 3$$

Here's $2 + 3$! It's the
Turnaround Fact for $3 + 2$!



$$3 + 2$$

$$3 + 3$$

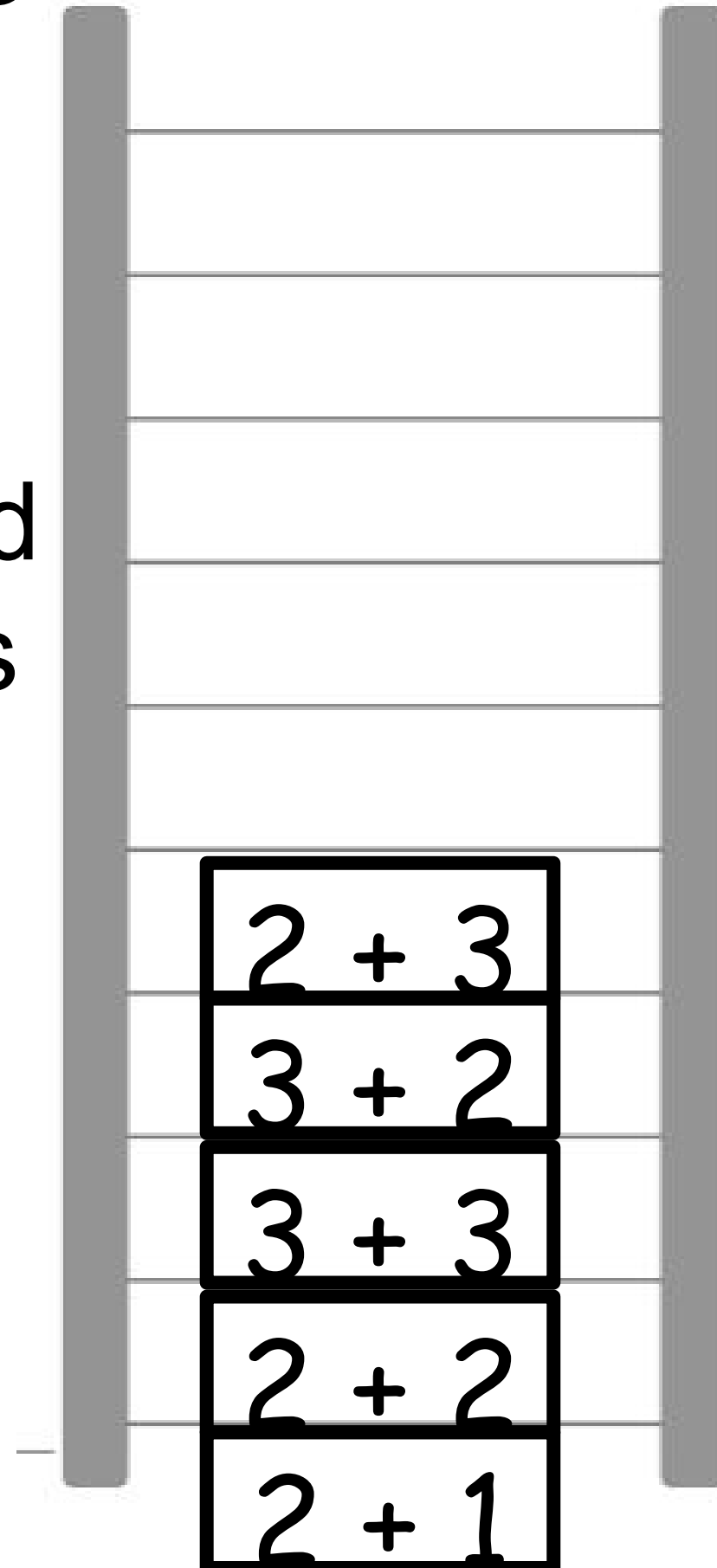
$$2 + 2$$

$$2 + 1$$

Concept Development



Find a card that is related to $2 + 3$. Explain how it is related.

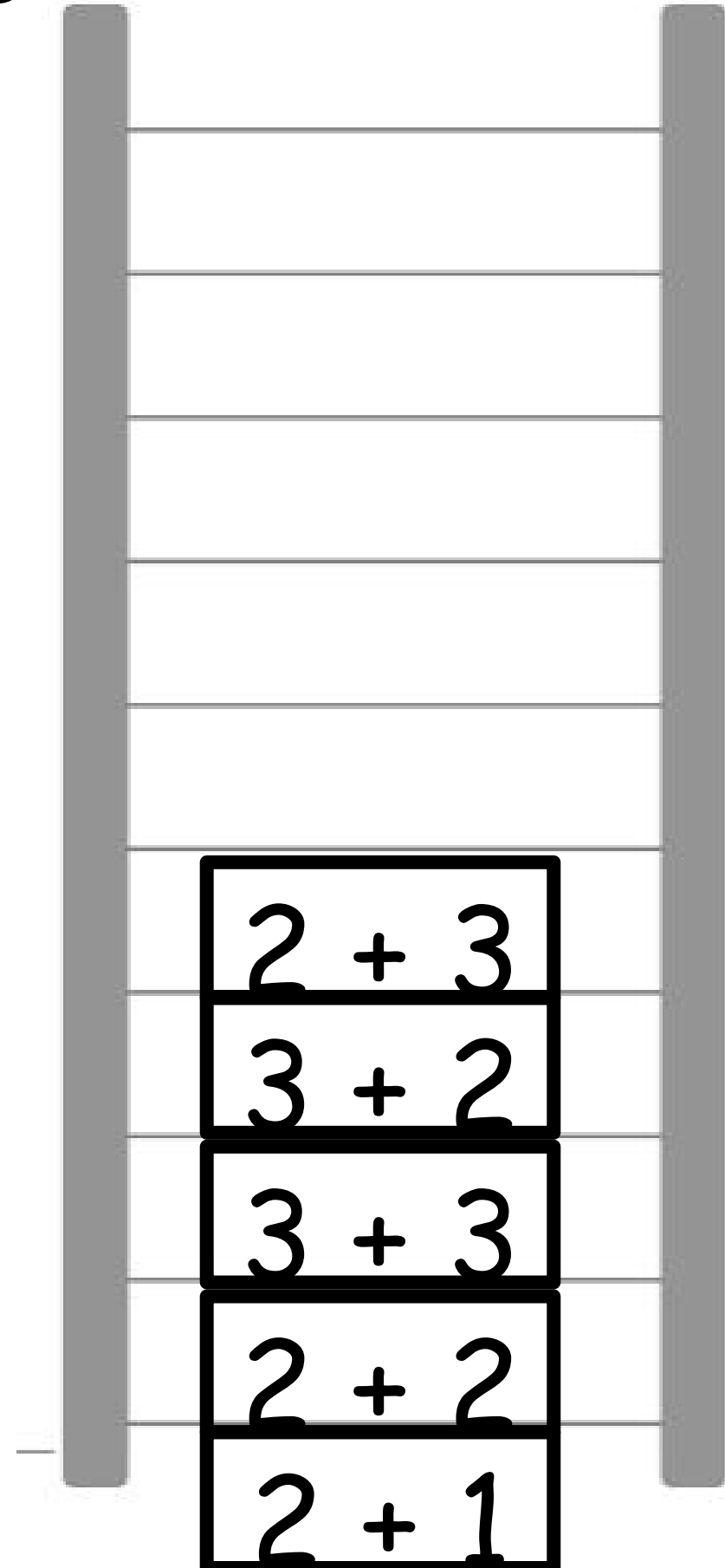


Concept Development



$$4 + 3$$

Here's $4 + 3$! It's 2 more
than $2 + 3$!



Concept Development



Find a card that is related to $4 + 3$. Explain how it is related.

$$4 + 3$$

$$2 + 3$$

$$3 + 2$$

$$3 + 3$$

$$2 + 2$$

$$2 + 1$$

Concept Development



$$4 + 4$$

Here's $4 + 4$! It's 1 more than $4 + 3$ and a Doubles Fact!

$4 + 3$
$2 + 3$
$3 + 2$
$3 + 3$
$2 + 2$
$2 + 1$

Concept Development



Find a card that is related to $4 + 4$. Explain how it is related.

$$4 + 4$$

$$4 + 3$$

$$2 + 3$$

$$3 + 2$$

$$3 + 3$$

$$2 + 2$$

$$2 + 1$$

Concept Development



$$4 + 5$$

Here's $4 + 5$! It's a
Doubles Plus 1 Fact!

$$4 + 4$$

$$4 + 3$$

$$2 + 3$$

$$3 + 2$$

$$3 + 3$$

$$2 + 2$$

$$2 + 1$$

Concept Development



Find a card that is related to $4 + 5$. Explain how it is related.

$$4 + 5$$

$$4 + 4$$

$$4 + 3$$

$$2 + 3$$

$$3 + 2$$

$$3 + 3$$

$$2 + 2$$

$$2 + 1$$

Concept Development



$$5 + 5$$

Here's $5 + 5$! It's a
Doubles Fact and 1 more
than $4 + 5$!

$$4 + 5$$

$$4 + 4$$

$$4 + 3$$

$$2 + 3$$

$$3 + 2$$

$$3 + 3$$

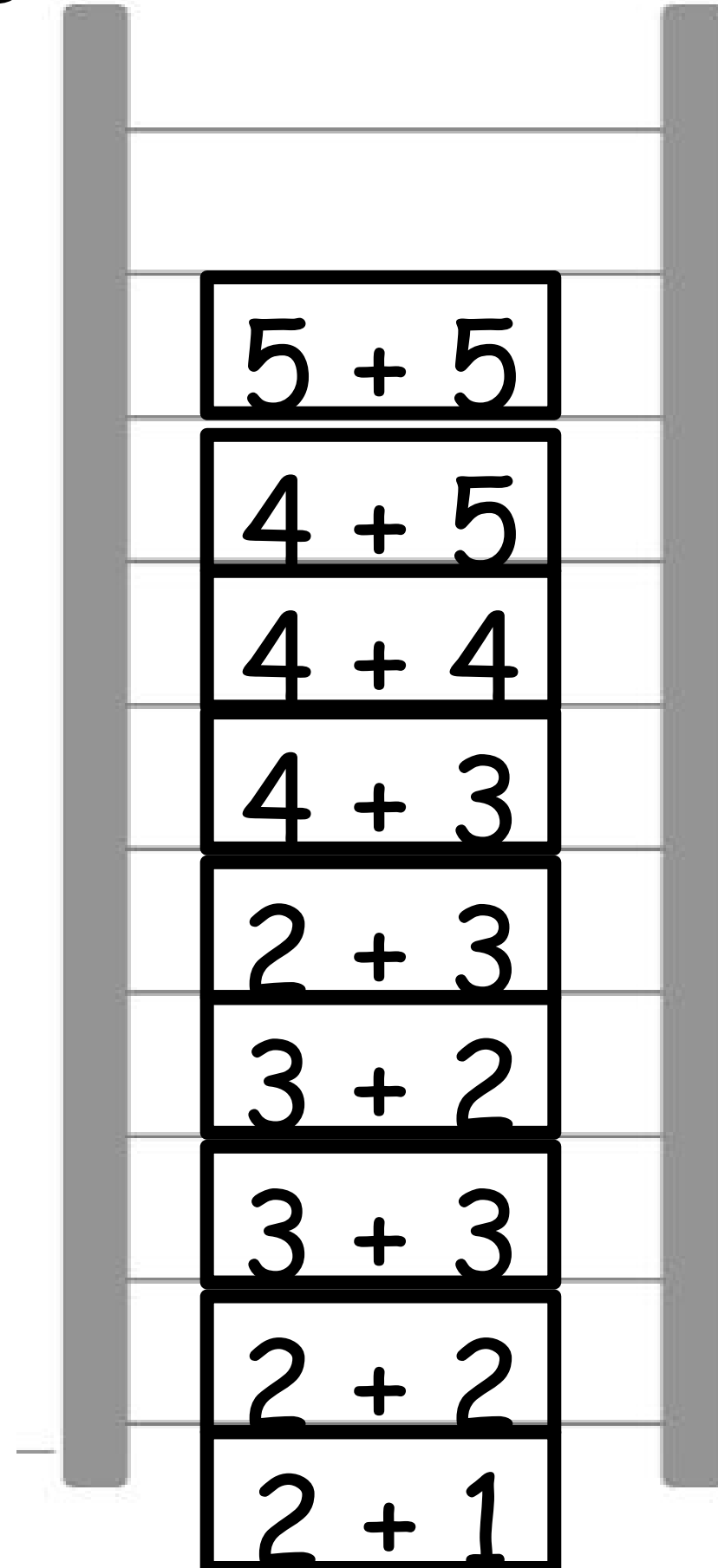
$$2 + 2$$

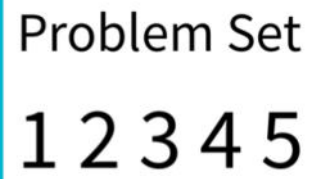
$$2 + 1$$

Concept Development



Here's our completed
related fact ladder!





A STORY OF UNITS

1.1

Name _____

Date _____

Related Fact Ladders

1.  $2 + 1 = 3$

2.  $4 + 1 = 5$

3.  $5 + 5 = 10$

4. 

5.  $2 + 6 = 8$

6.  $7 + 3 = 10$

Debrief

- Share one of your Related Fact Ladders with a partner. Explain how each number sentence is related. What types of relationships did you both use? What was the easiest relationship for you to think of? Why?
- For which facts did you have the hardest time thinking of a related fact? Explain what made it difficult, and what you decided to do.
- Let's look at the addition chart together. How does the chart help us see how facts are related? Use examples to explain your thinking.
- Look at your Application Problem. How could Henry change his number of linking cubes from 4 blue cubes and 3 red cubes so that he has 8 cubes using a related number sentence? Explain how your suggestion is related to $4 + 3 = 7$.

Exit Ticket

A STORY OF UNITS

Lesson 24 Exit Ticket

1•1

Name _____ Date _____

Solve the number sentences. Use the key to color. Once the box is colored, you do not need to color it again.

a. $5 + 2 = \underline{\quad}$

b. $7 + 2 = \underline{\quad}$

c. $2 + 3 = \underline{\quad}$

d. $3 + 3 = \underline{\quad}$

e. $7 = 1 + \underline{\quad}$

f. $2 = 1 + \underline{\quad}$

g. $\underline{\quad} = 4 + 4$

h. $8 + 2 = \underline{\quad}$

i. $3 + 4 = \underline{\quad}$

j. $\underline{\quad} = 5 + 4$

k. $10 = 1 + \underline{\quad}$

l. $10 = 5 + \underline{\quad}$

Color doubles red.

Color +1 blue.

Color +2 green.

Color doubles +1 brown.

Challenge:

List the number sentences that can be colored more than 1 way.

