NARROW THE GUESS

Build the fences

CARD 1

AGES 5–7



EXACT ROD CLUES · count only the rods in this panel

10 rods | 10 rods | 10 rods | Closed · 0–9

3 tens
Pocket unknown
Capacity 0–9

Closed pocket: capacity 0–9; contents hidden.

A DRAW BOTH FENCES.

Put a fence at the smallest possible total and another at the largest.

28 29 30 31 32 33 34 35 36 37 38 39 40 41

Draw two fence posts above the track.

B COULD IT BE INSIDE?

Circle every total that could be in this delivery. Three correct choices.

29 30 36 39 40

This is a multiple-select task.

SAY: “Could the pocket be empty? Could it be full?”

Practices: Building all possibilities from known tens and a pocket's capacity.

40 mm · Print at 100%

Website

NARROW THE GUESS

Prove a possibility

CARD 2

AGES 5–7



EXACT ROD CLUES · count only the rods in this panel

10 rods | 10 rods | Closed · 0–2 | Closed · 0–2

2 tens · two pockets · each 0–2

A WHICH TOTAL IS POSSIBLE?

Circle one:

19 **22** **25**

B SHOW ALL THE WAYS TO MAKE 22.

Draw rods in each pair of pocket outlines. The two bundles stay outside.

	LEFT	RIGHT
1		
2		
3		

Empty is allowed. Swapping left and right makes another way.

SAY: "How many loose rods are needed after the two tens?"

Practices: Giving concrete examples and finding every two-pocket arrangement.

40 mm · Print at 100%

Website

NARROW THE GUESS

Repair the fences

CARD 3

AGES 5–7



EXACT ROD CLUES · count only the rods in this panel

10 rods | 10 rods | 10 rods | Closed · 0–9

3 tens
Pocket unknown
Capacity 0–9

Closed pocket: capacity 0–9; contents hidden.

A SOME POSSIBILITIES WERE LEFT OUT.

Printed proposal: 35–39. Draw the corrected fences on the track. The proposal stays marked “First try.” Write or circle one possible number the first try missed.

First try

One missed number:

28 29 30 31 32 33 34 35 36 37 38 39 40 41

Draw two fence posts above the track.

B ONE FENCE WENT TOO FAR.

Second proposal: 30–45. Write one number in that proposal that cannot be the total. Draw the greatest number of rods the pocket can hold in the nine-slot outline.

Second proposal: 30–45

Cannot be the total:

Nine-slot pocket outline

SAY: “Show one number that proves this fence needs to move.”

Practices: Using a counterexample to distinguish a missing possibility from an impossible extra number.

40 mm · Print at 100%

Website

NARROW THE GUESS

Follow the new clue

CARD 4

AGES 5–7



EXACT ROD CLUES · count only the rods in this panel

10 rods | 10 rods | 10 rods | 10 rods

Open · 1 rod

Closed · 0–2

Known: 4 tens + 1 · closed adds 0–2

Picture pouch is decoration. Use only these rod clues.

A WHAT COULD THE TOTAL BE NOW?

Draw the two fences on the track.

39 40 41 42 43 44 45

Small end-value boxes are optional.

Smallest:

Largest:

B THE SECOND POCKET OPENS.

It contains exactly 2 rods. Draw the two fences on the second track. Then point to or say what changed: the rods, or what we know? Use the line for adult scribing.

39 40 41 42 43 44 45

After the second pocket opens

What changed: the rods, or what we know?

SAY: “Keep what you already know. What did opening the pocket tell you?”

Practices: Updating a range after evidence, ending with one exact total.

40 mm · Print at 100%

Website