

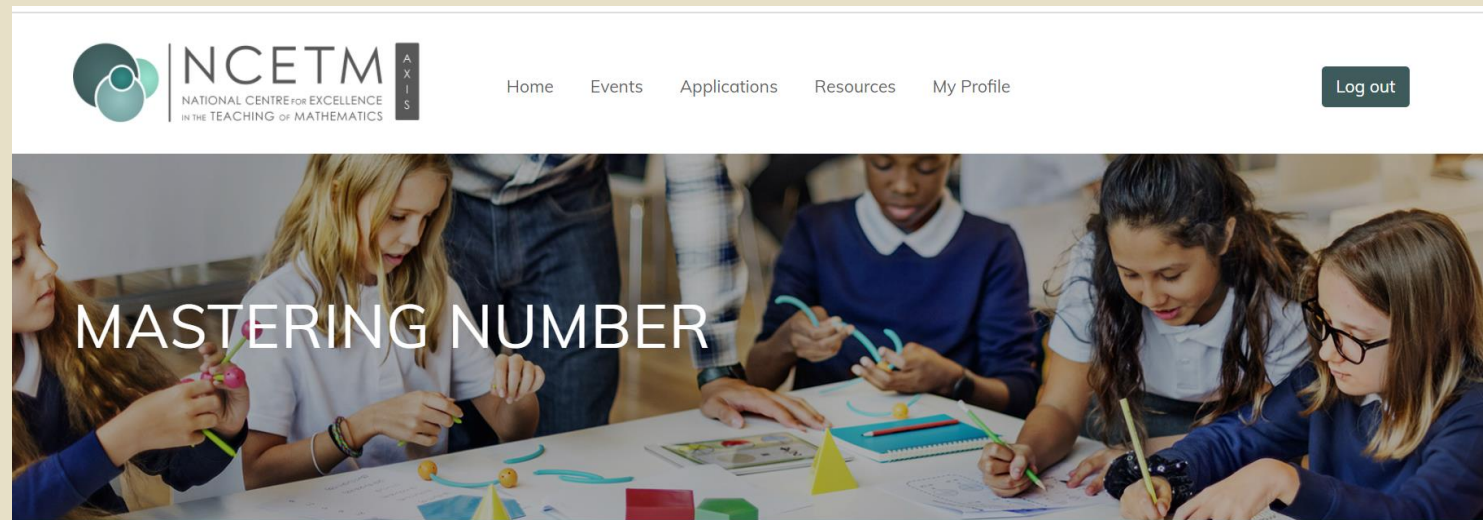


MASTERING NUMBER

09.02.23

What is the Mastering Number Programme?

- Establishing provides children with the skills and knowledge to ensure that children leave KS1 with strong, deep and flexible understanding of the number system through a 20 minute session each day.



What are the aims of mastering number?

- Establishing firm number foundations
- Developing number sense
- Focusing on automaticity and discouraging counting on fingers
- Encouraging subitizing
- Using a rekenrek to consolidate number sense

What are rekenreks?



<https://www.youtube.com/watch?v=gtb7X2UJNWw>

Rekenrek

2 rows:

10 beads:

Ready Reset

Horizontal groups: ◀ 5 ▶

Vertical groups: ◀ 5 ▶

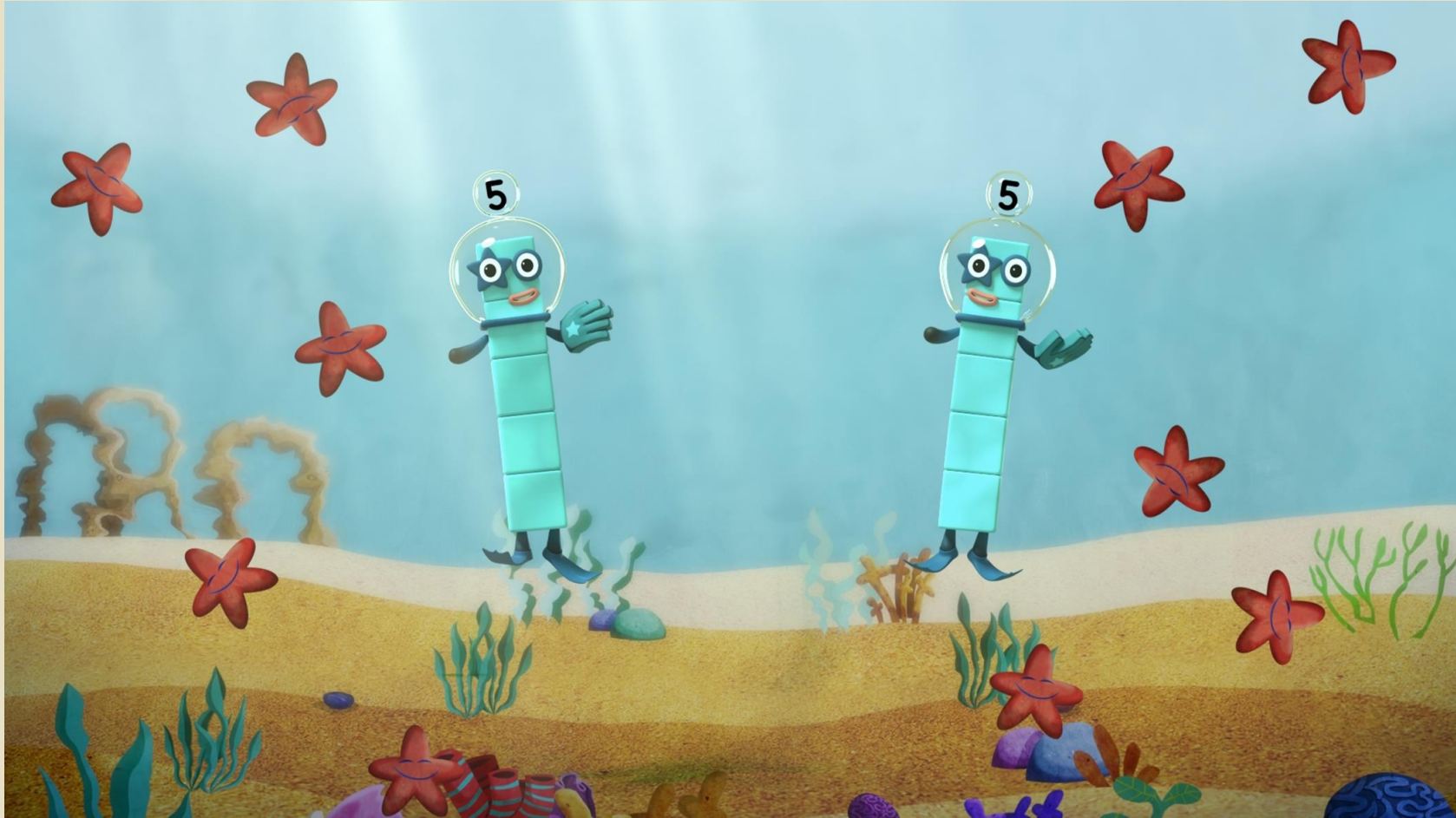
A digital interface for a rekenrek. The top section is a purple header with the title "Rekenrek" and two buttons labeled "Ready" and "Reset". Below the header are two sliders: "2 rows:" and "10 beads:", both set to their maximum values. To the right of the sliders are two sets of navigation arrows: "Horizontal groups: ◀ 5 ▶" and "Vertical groups: ◀ 5 ▶". The main area shows a digital representation of the rekenrek with two horizontal rows of ten beads each. The first five beads in each row are red, and the last five are yellow.

Rekenrek language...

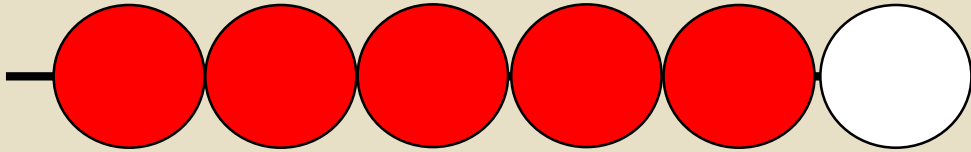
- 'one push'
- reds are ready to start
- reset
- top row
- bottom row

Numberblocks

Series 3, Episode 15: Ten Again

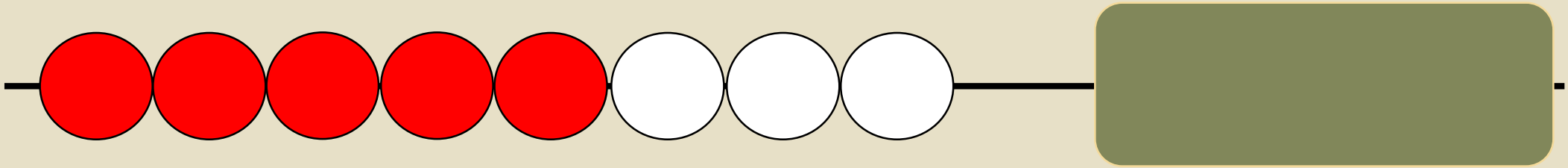


How many beads are hidden?



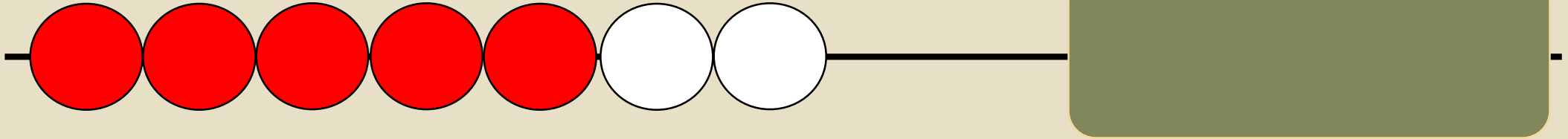
_____ needs _____ to make 10.

How many beads are hidden?



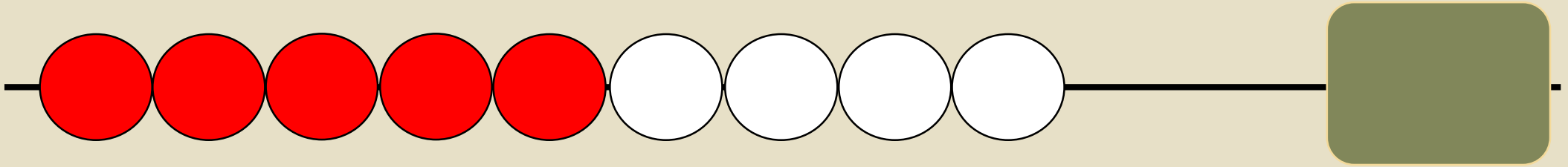
_____ needs _____ to make 10.

How many beads are hidden?



_____ needs _____ to make 10.

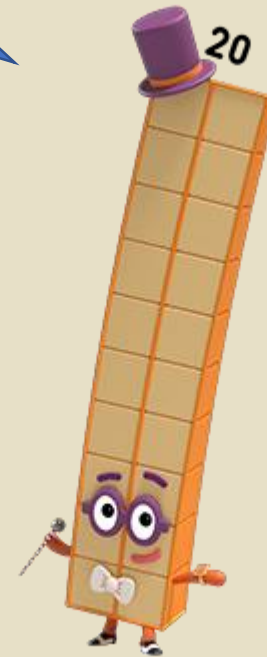
How many beads are hidden?



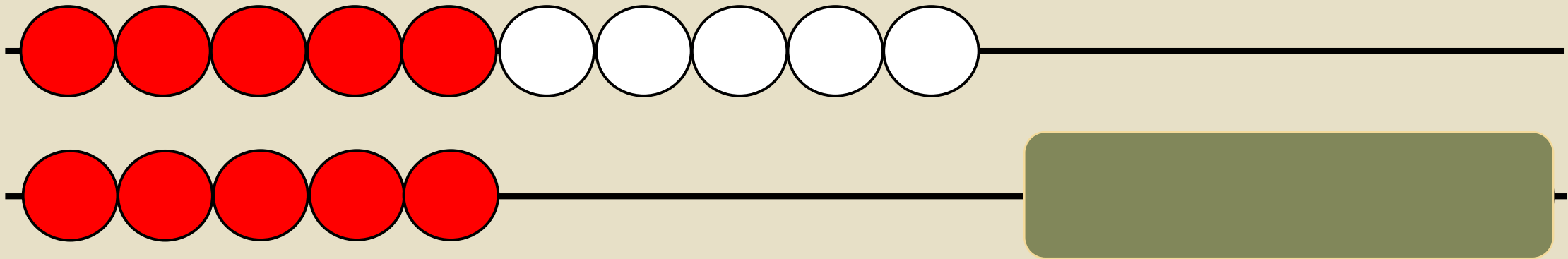
_____ needs _____ to make 10.

What do you know about the number 20?

I'm two 10s, nothing more!

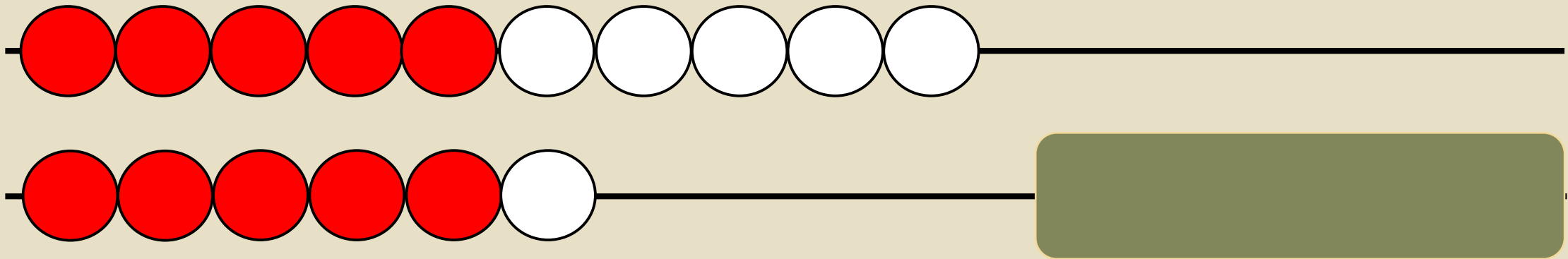


How many beads are hidden? How do you know?



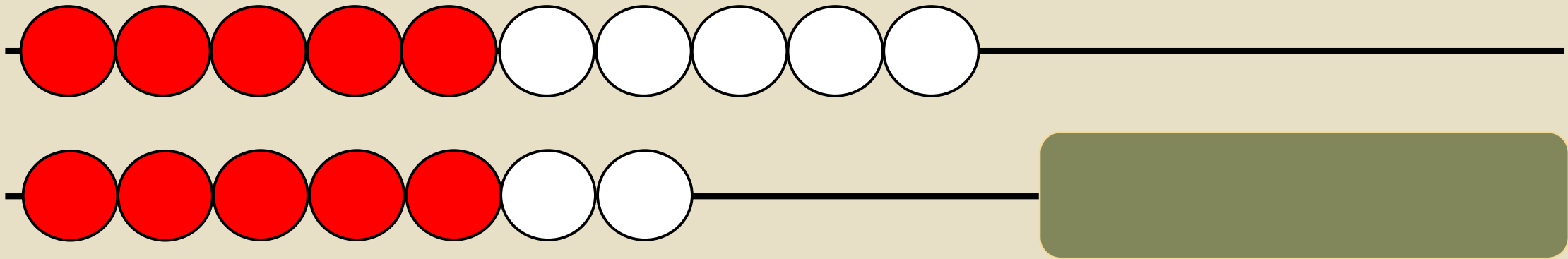
_____ needs _____ to make 10;
so, _____ needs _____ to make 20.

How many beads are hidden? How do you know?



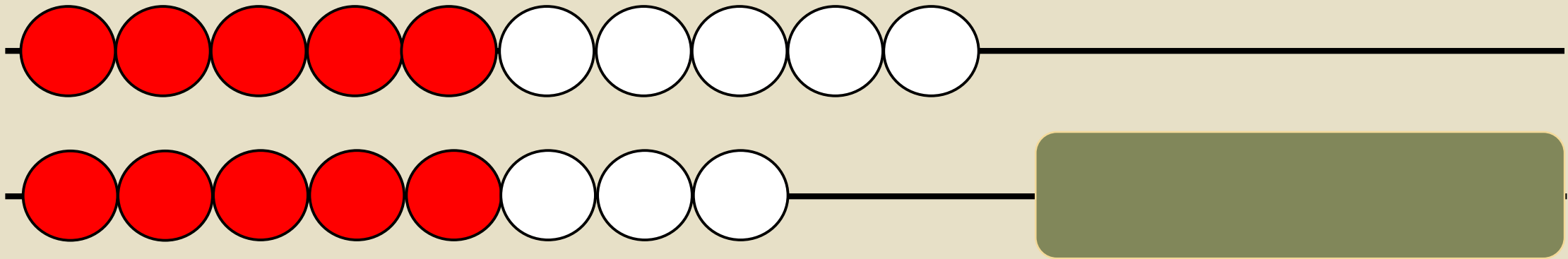
_____ needs _____ to make 10;
so, _____ needs _____ to make 20.

How many beads are hidden? How do you know?



_____ needs _____ to make 10;
so, _____ needs _____ to make 20.

How many beads are hidden? How do you know?



_____ needs _____ to make 10;
so, _____ needs _____ to make 20.

Practice task

$$15 + 5 = 20$$

$$16 + 4 = 20$$

$$17 + 3 = 20$$

$$18 + 2 = 20$$

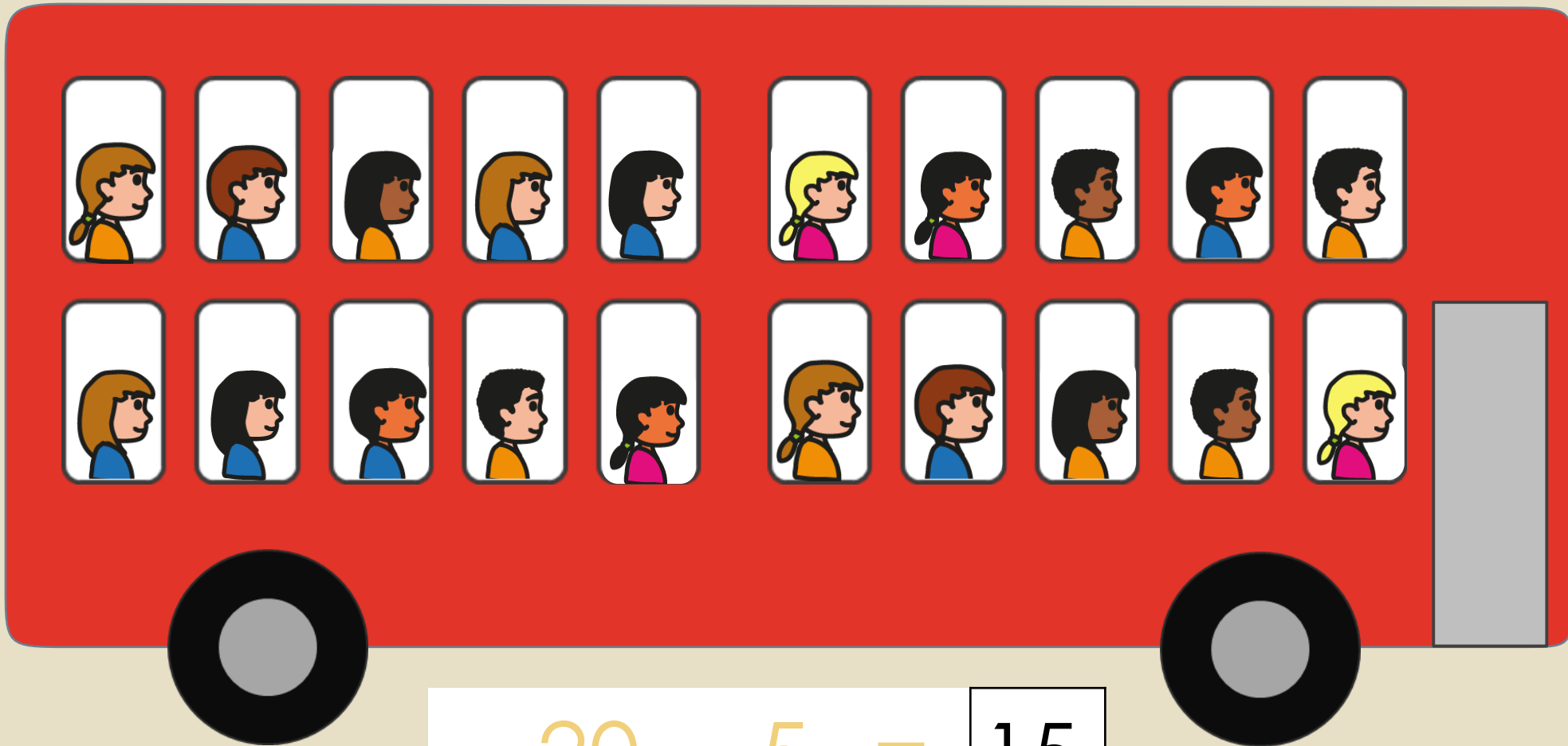
$$19 + 1 = 20$$

Get ready for some
'first, then, now' stories!

See if you can solve
about
the bus!

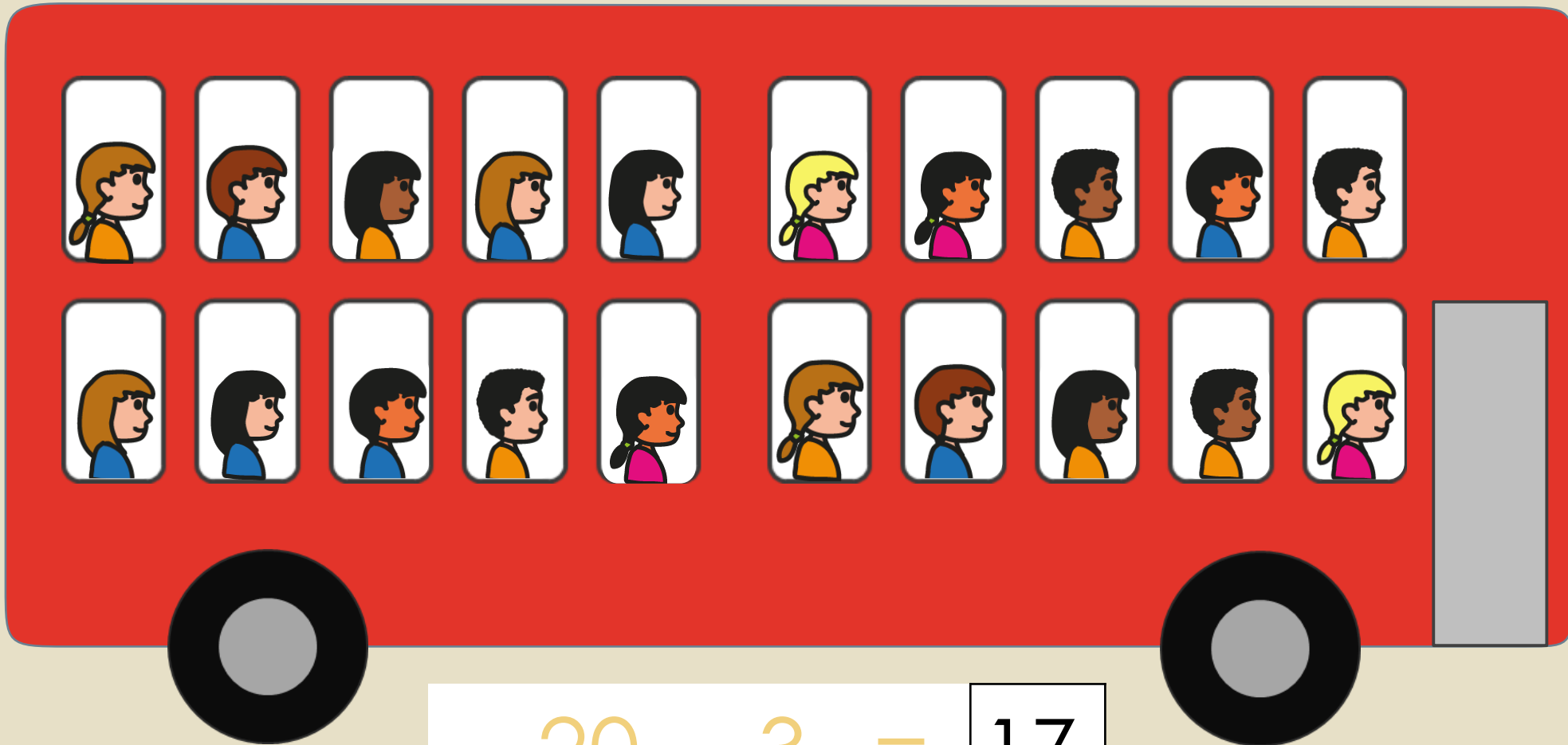


First there were 20 children on the bus. **Then** 5 children got off. **Now** there are _____ children on the bus.



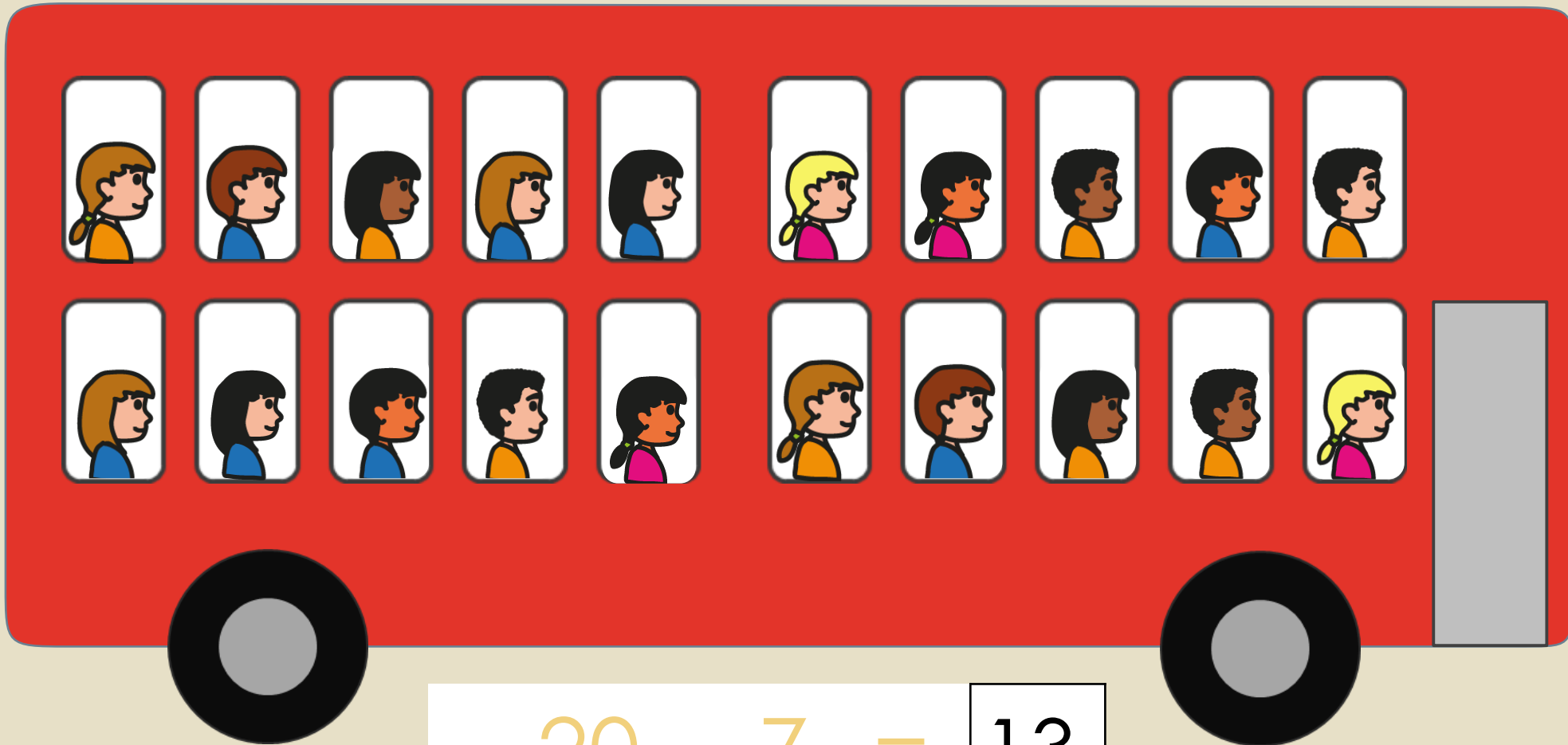
$$20 - 5 = 15$$

First there were 20 children on the bus. **Then** 3 children got off. **Now** there are _____ children on the bus.



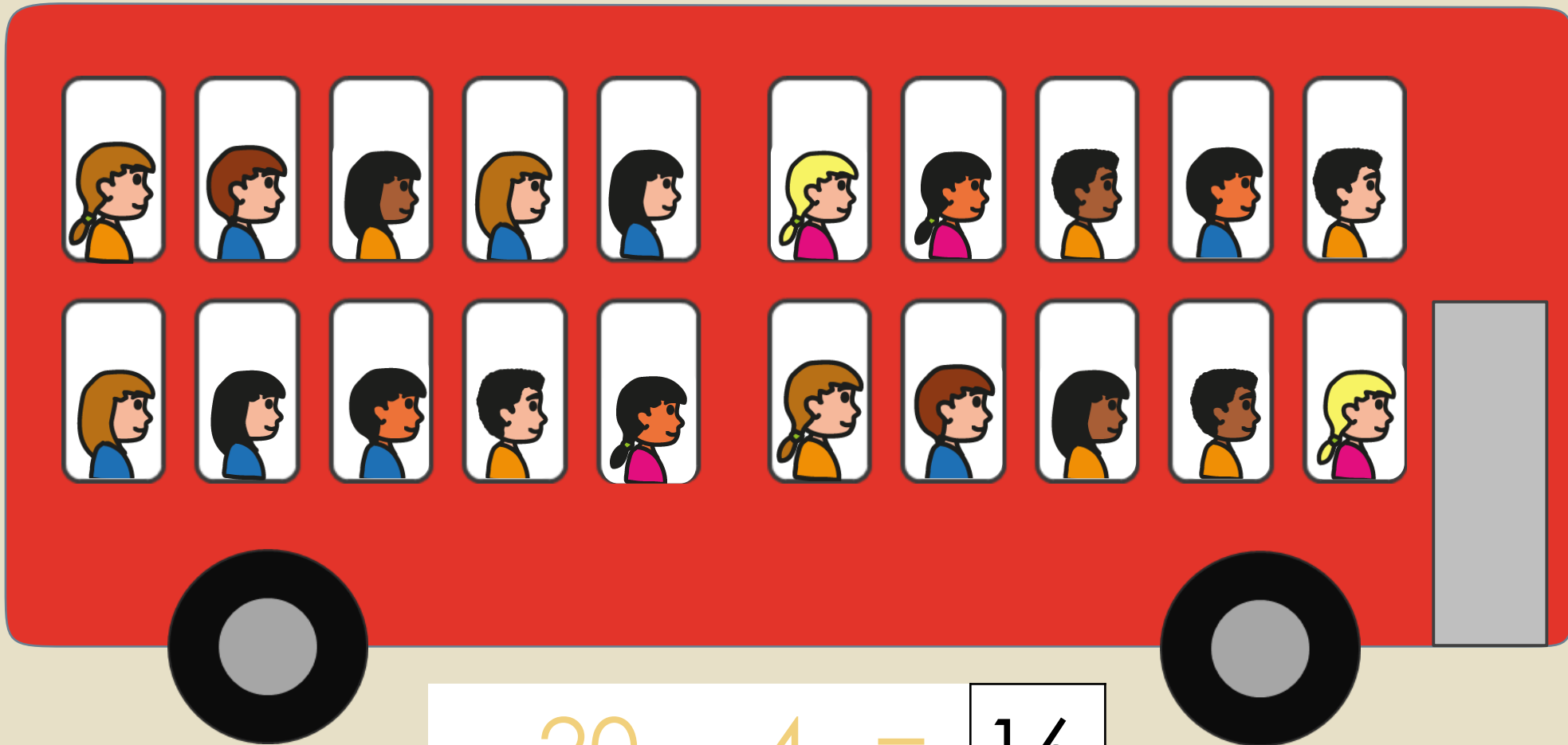
$$20 - 3 = 17$$

First there were 20 children on the bus. **Then** 7 children got off. **Now** there are _____ children on the bus.



$$20 - 7 = 13$$

First there were 20 children on the bus. **Then** 4 children got off. **Now** there are _____ children on the bus.



$$20 - 4 = 16$$

HOW YOU CAN SUPPORT YOUR CHILD WITH MATHS AT HOME....

HOME - MADE REKENREK



What you will need:

- a piece of cardboard
- pipe cleaners
- 10 red beads
- 10 white beads
- hole puncher

STORY BOOKS...



USEFUL WEBSITES...

- ⇒ National Numeracy - Family Maths Toolkit
<https://www.nationalnumeracy.org.uk/family-maths-toolkit-resources-summer-2022-signed-up-true>
- ⇒ NRIC Website -
<https://nrich.maths.org/14600>
- ⇒ Oxford Owl - Maths at Home
<https://home.oxfordowl.co.uk/maths/maths-at-home/>
- ⇒ My Maths
<https://www.mymaths.co.uk/>
- ⇒ Purple Mash
<https://www.purplemash.com/#tab/home/maths>

