

Queen of Keepy Uppy

adding positive
and negative



Age
Umri
7+





One day, the two brothers,
Koba and Baraka,
were heading soccer balls.
Koba, the older one,
got five headers.

“Let’s keep score!”
said Koba.



Baraka, his younger brother, only got one.



“This means you have negative four points,”
said Koba.

-4

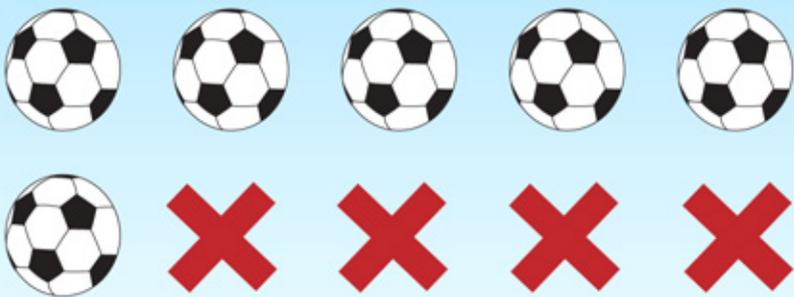
“No way, I got one!” Baraka argued.





“That’s not how the scoring works in my game, little bro. I got five, you got one, so you have four less than me.

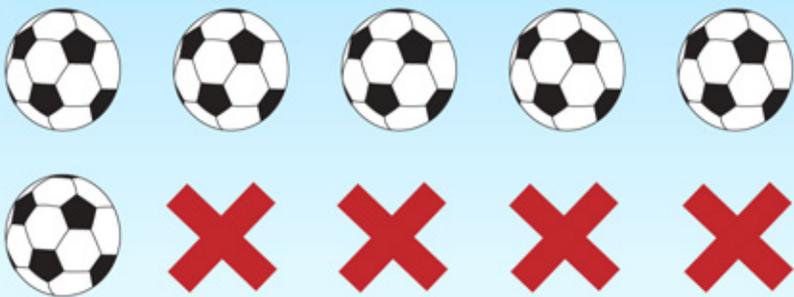
I call that **negative four**.”



-4

In the second round,
Koba got six and Baraka got two.

“Six minus two is four.
So I’m **negative four** again,”
said Baraka.



-4

“That’s right!

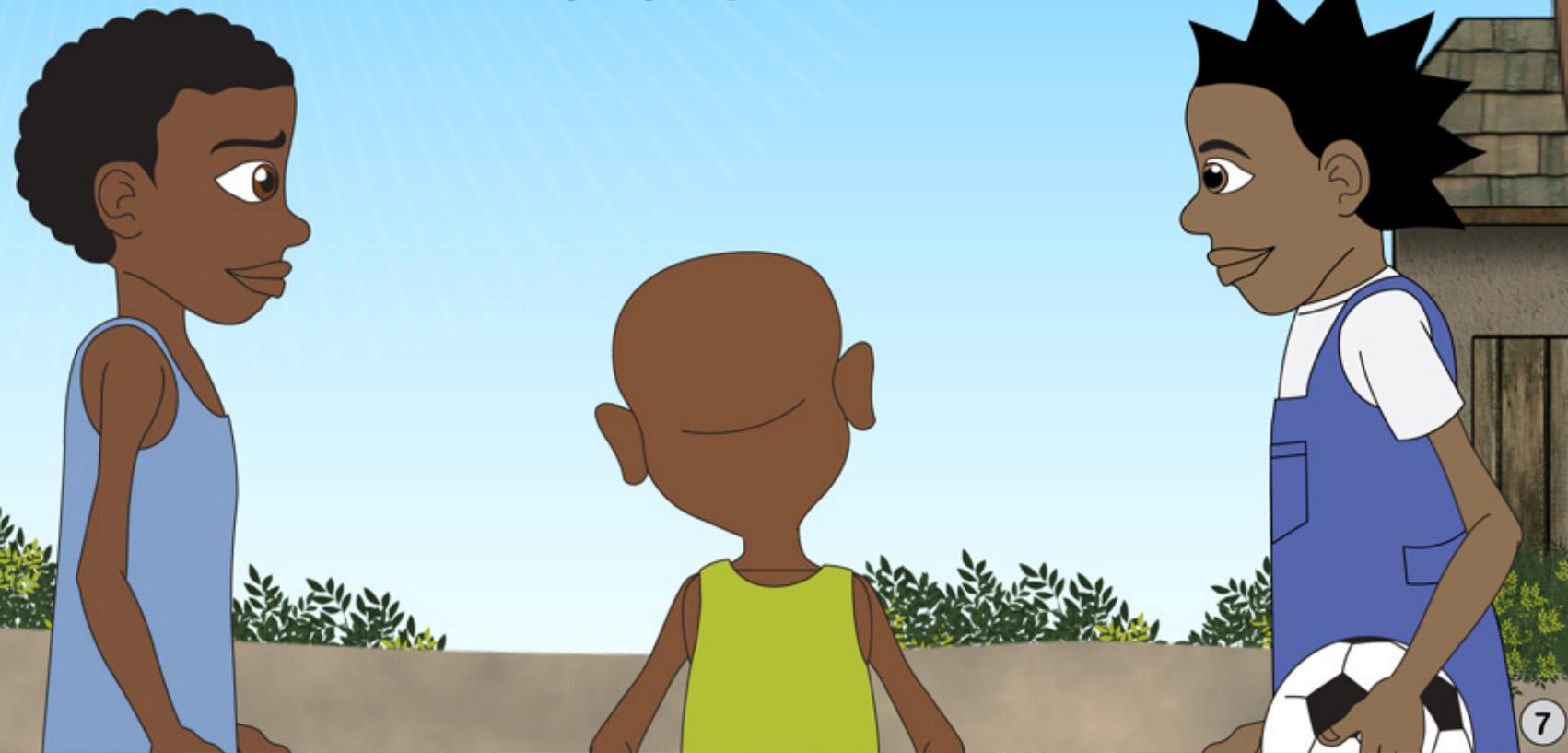
Negative four plus negative four is negative eight.

$$(-4) + (-4) = -8$$

So your score is now negative eight.
Baraka, you’re losing!” said Koba.



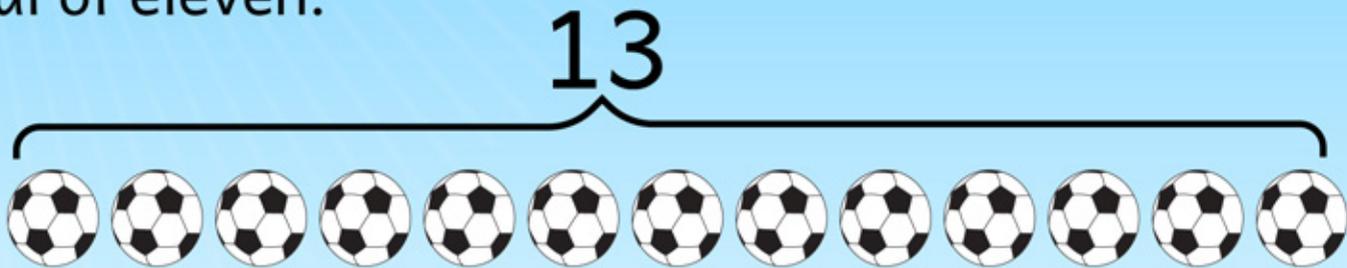
Kiduchu arrived and challenged Koba to play against her instead.



She smoothed down
her spiky hair and
juggled the ball
on her head like a pro.



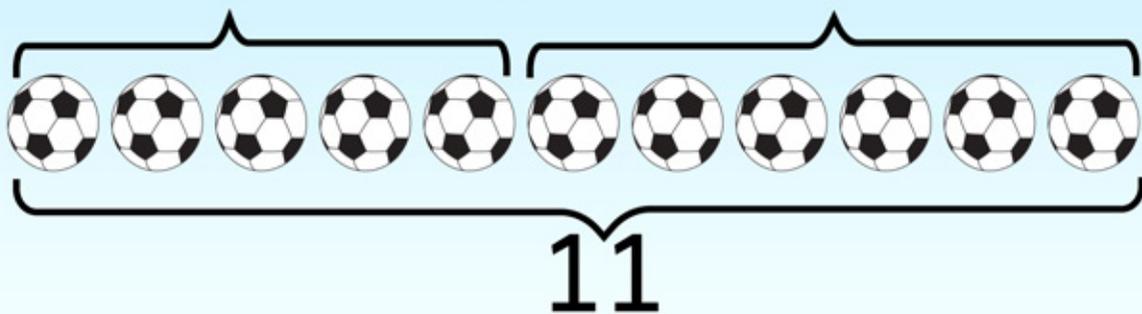
On her first try alone, Kiduchu got thirteen points.
Koba got five and six points in two rounds,
a total of eleven.



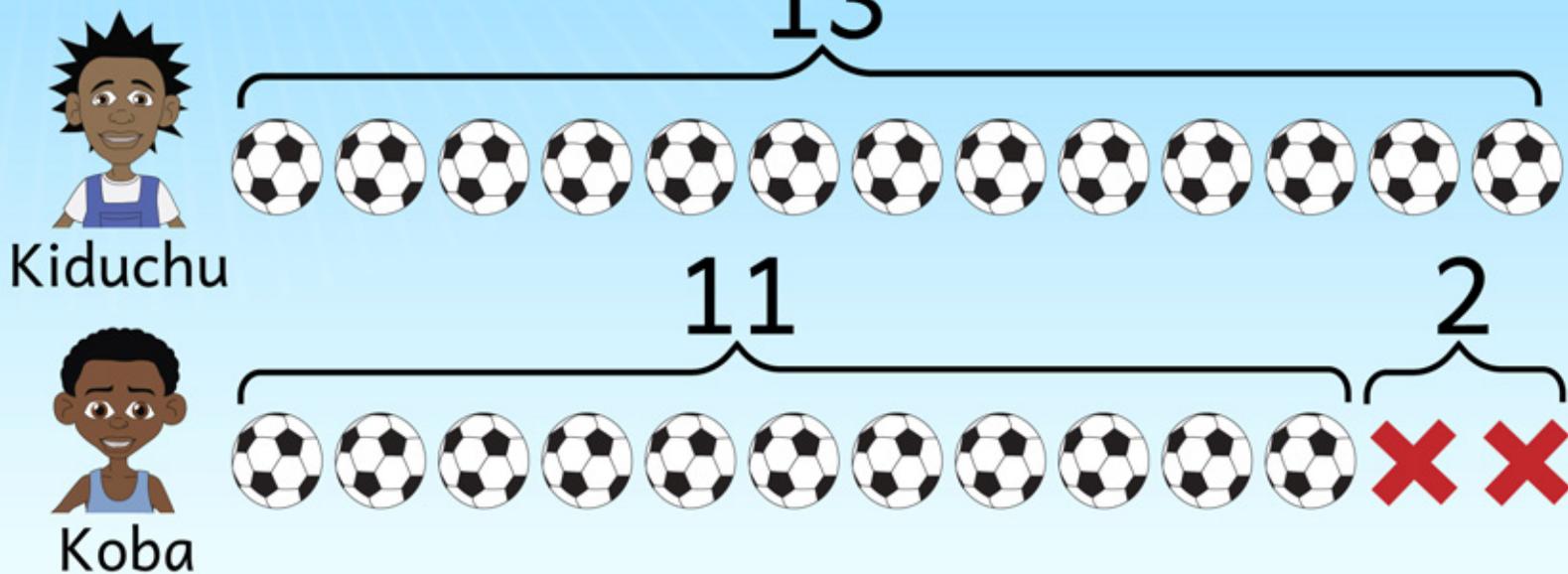
$$5 + 6$$



Koba



“Koba, now you are two points behind Kiduchu. You’ve got **negative two**!” yelled Baraka with glee.



He was so happy and sang over and over,



“Koba’s score
is negative!
Koba’s score
is negative!”

Koba was so mad that he challenged Kiduchu to a penalty shoot out. The ball flew high and landed in Mzee Kigo's yard.





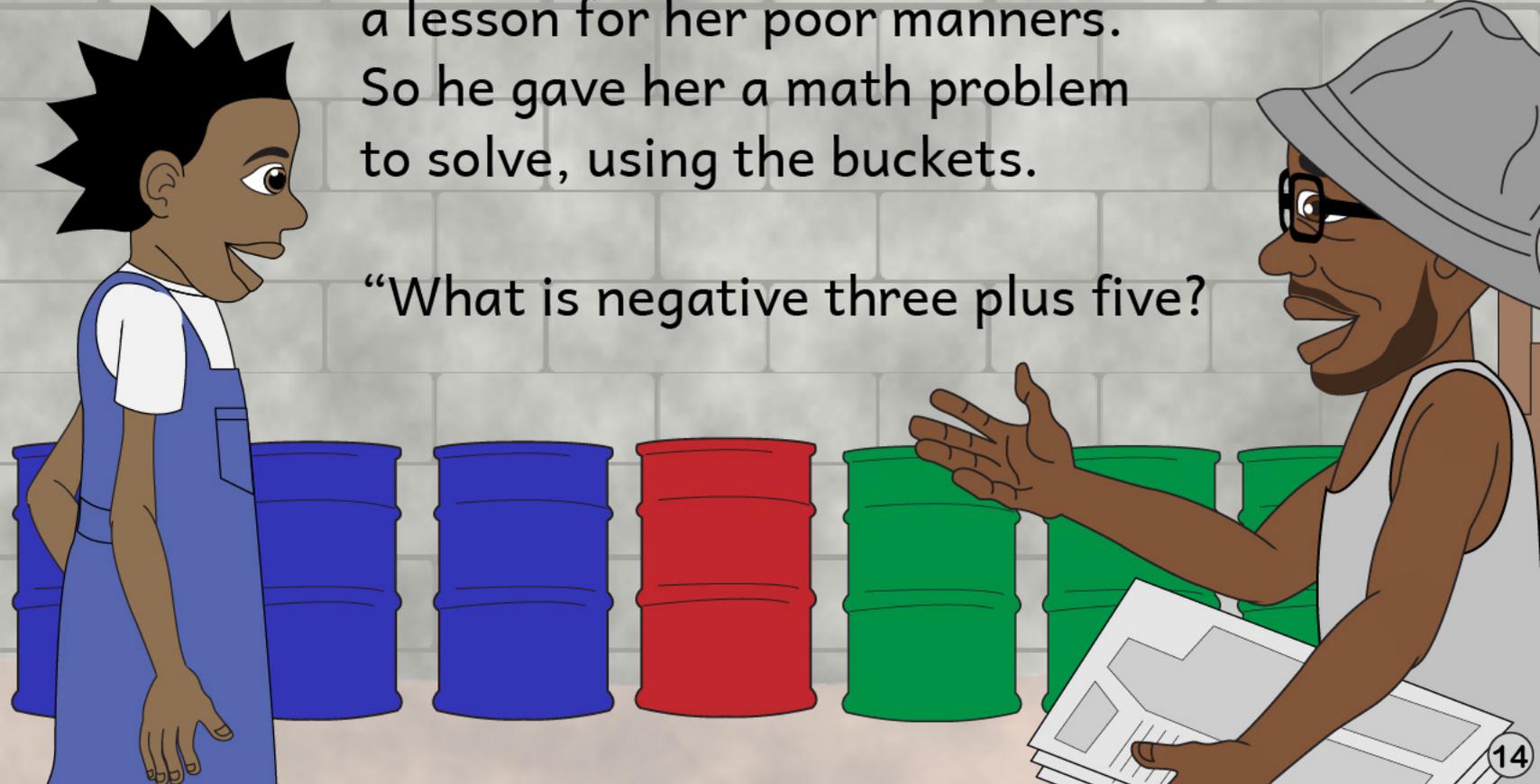
Kiduchu ran to Mzee Kigo's house.
She asked if he'd seen her ball.

“Your ball? You barge
in here without saying
hello?! You need to learn
some manners,”

said Mzee Kigo.

He wanted to teach Kiduchu a lesson for her poor manners. So he gave her a math problem to solve, using the buckets.

“What is negative three plus five?”



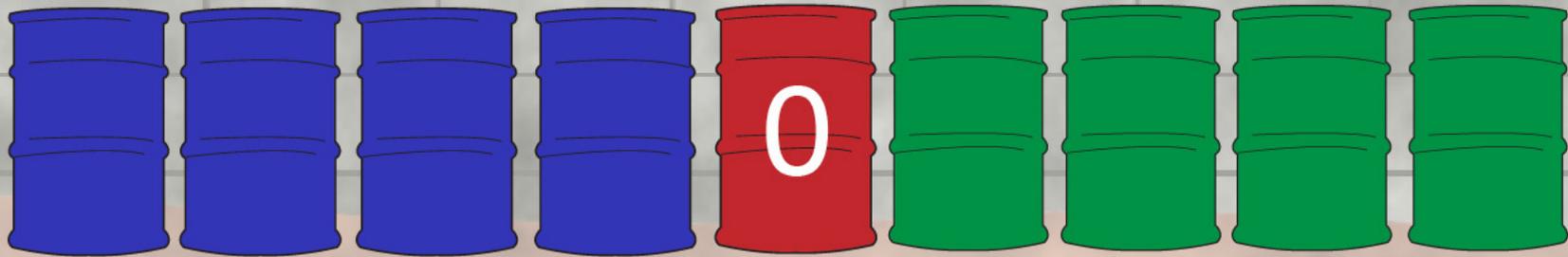
Ubongo
Brain
Brain
Ubongo
Ubongo
Brain



Let's see if you can
use your Ubongo,
or your brain."



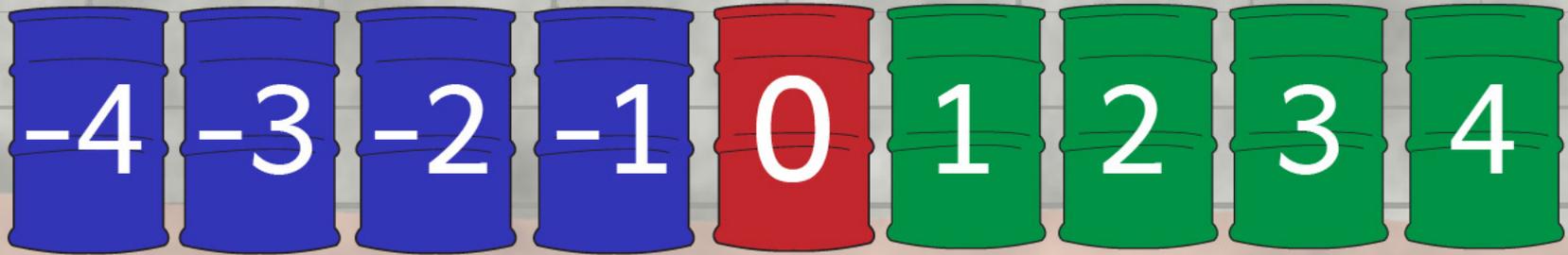
To solve negative three plus five, he told her to start at the red bucket which means zero.



“The **negative** sign means you walk to the left.
The **positive** sign means you walk to the right.

(-)

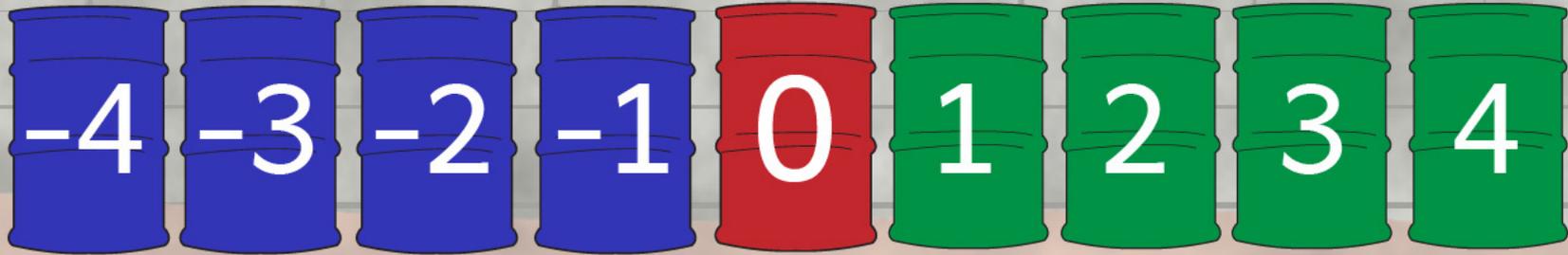
(+)



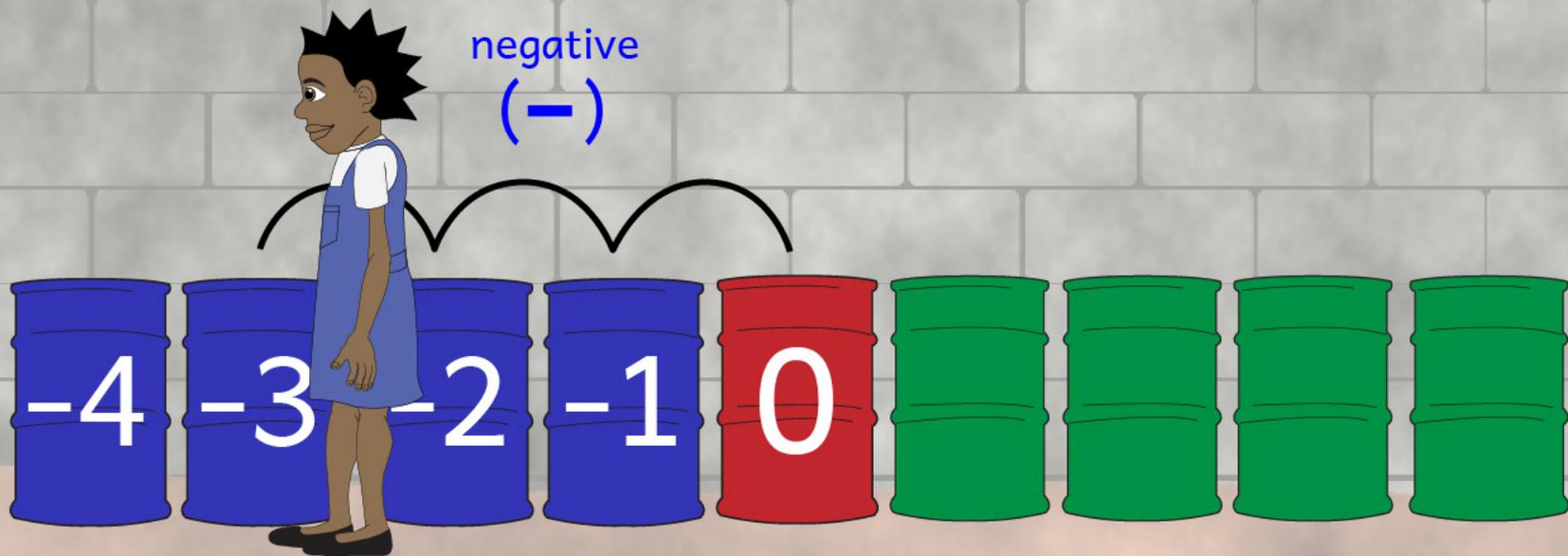
Since the first sign is **negative**,
turn left and walk three buckets.
Make sure you don't count the **zero** bucket."

(-)

(+)



Kiduchu walked three steps in the **negative** direction.





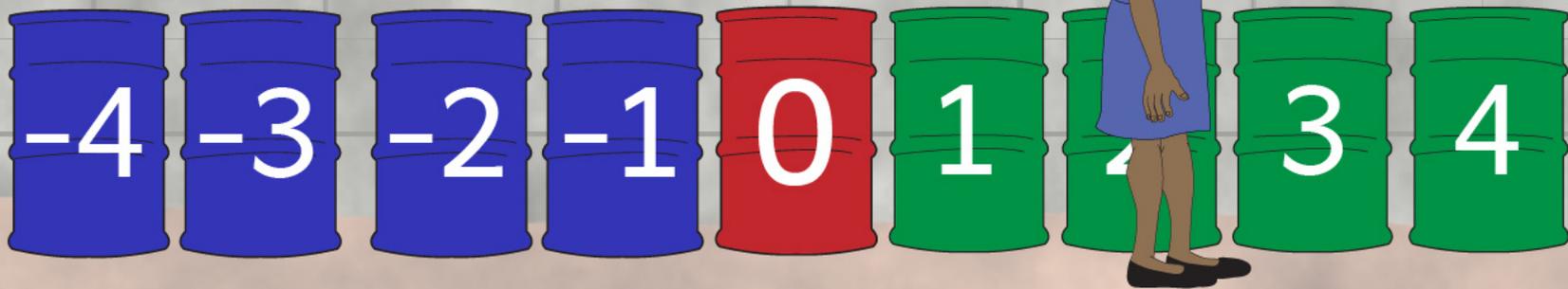
She looked inside
the bucket and
found no ball.

“That’s because
you haven’t finished
the problem. Keep going,”
Mzee Kigo said.



“Now add five, which means turn right and walk five buckets, in the **positive** direction.”
Kiduchu walked five steps.

positive
(+)



She landed on bucket number two.

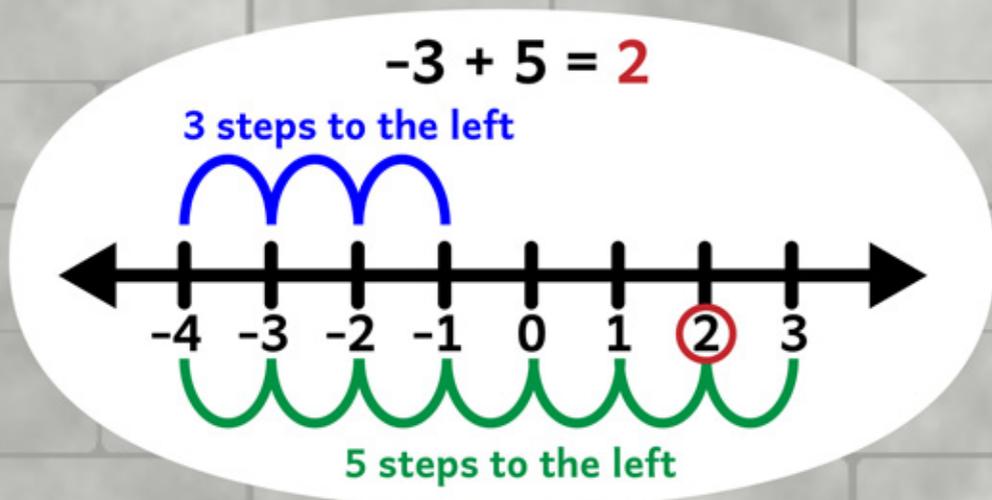




“Yay! I found my ball.
Mzee Kigo, that was such
an easy way to understand
negative and positive.”

Kiduchu repeated the steps.

“Negative three...three steps to the left plus five... five steps to the right equals positive two.”



“You’re a real math whiz now,
and you’ve learnt manners too,”
said Mzee Kigo.

Kiduchu politely thanked
him and said goodbye.



Kiduchu ran back to her friends.
Together they enjoyed a fun game of football.





The End

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