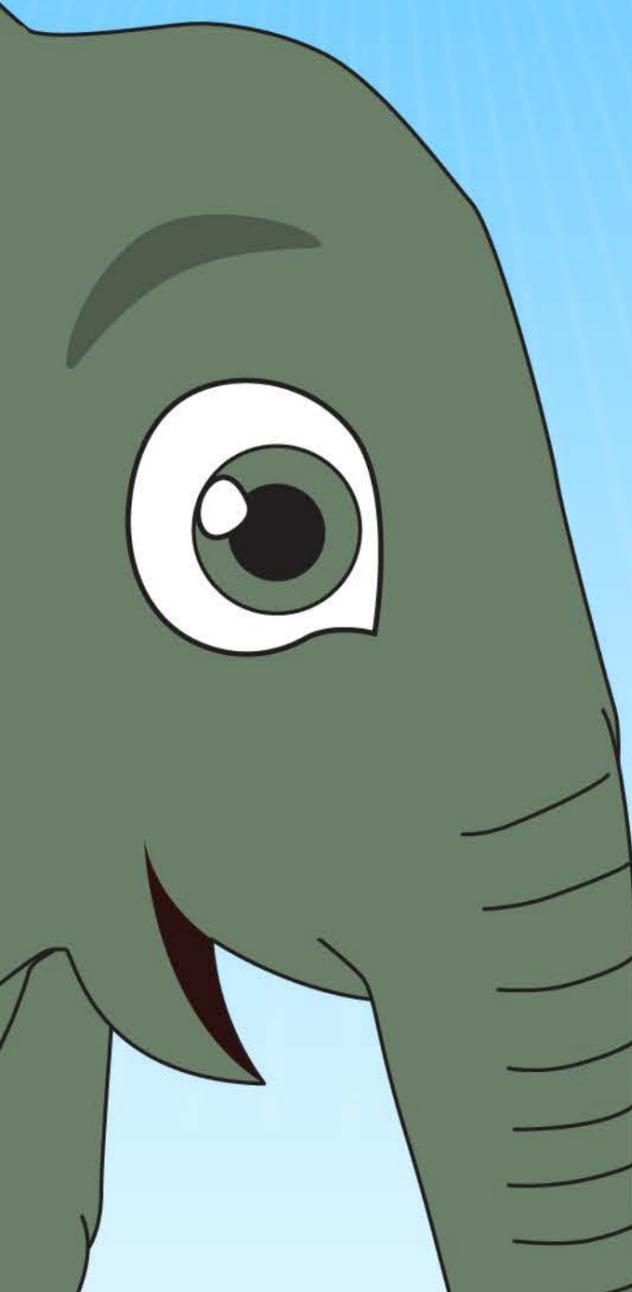


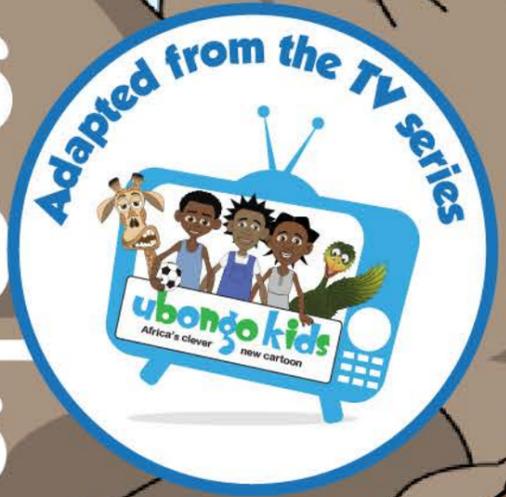
Kibena and the Math Rats

counting ones, tens,
hundreds and thousands

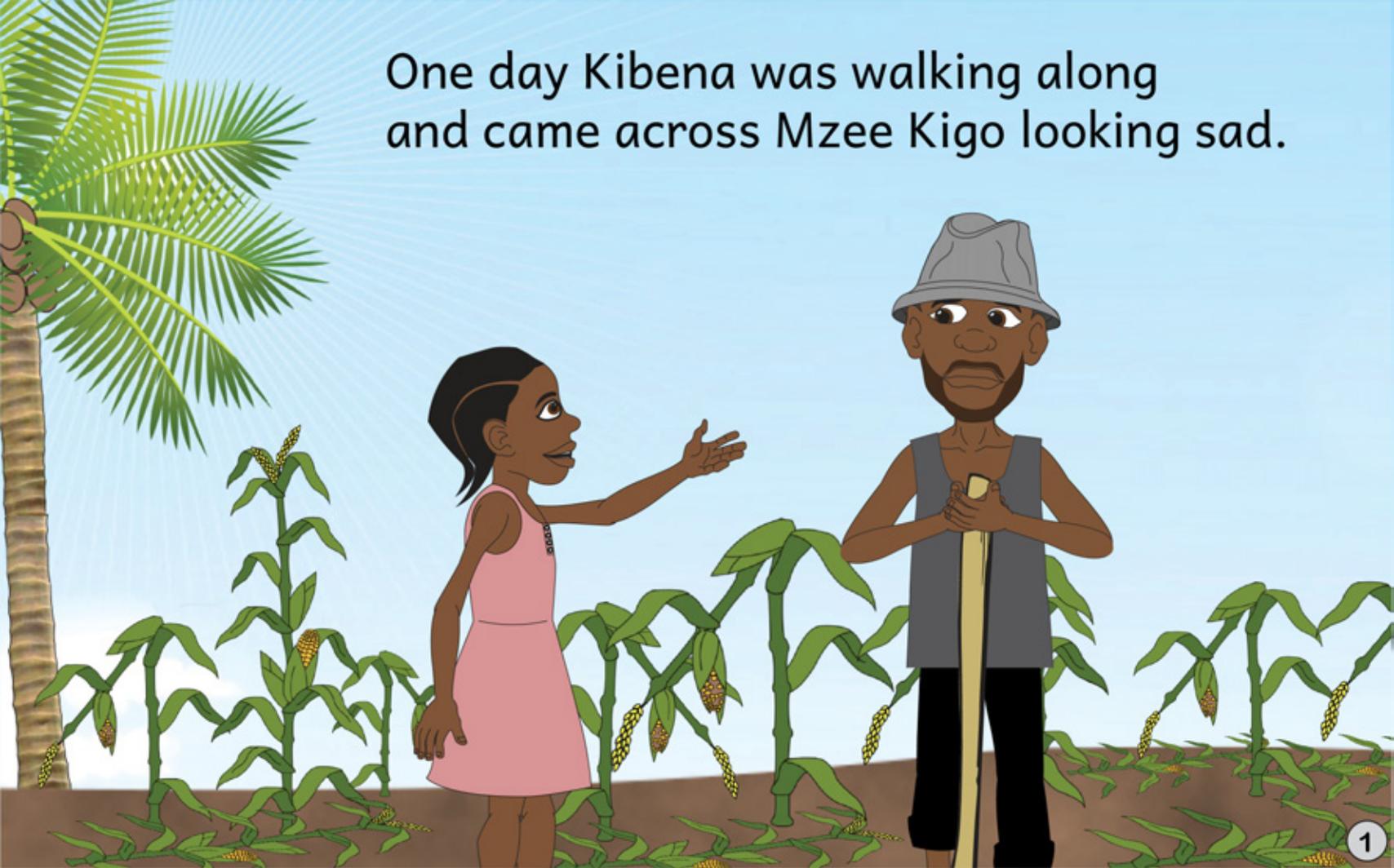


$$\begin{array}{r} 7,546 \\ - 7,100 \\ \hline 446 \end{array}$$

Age
Umri
7+



One day Kibena was walking along
and came across Mzee Kigo looking sad.



“The rats have eaten all my corn.
My whole field is destroyed,” said Mzee Kigo.



“I will find the rats, count them,
and move them away,” replied Kibena.





In no time Kibena
came across a rat village.



“Welcome to my hut
and meet my neighbours.
There are six of us, one in each hut,”
greeted Ms. Rat. Kibena walked on.



1

2

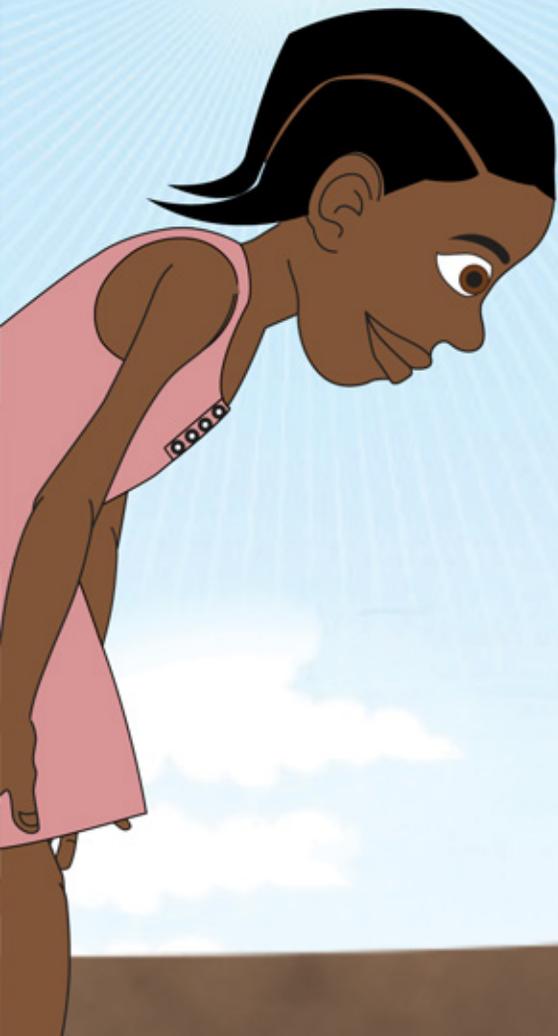
3

4

5

6





In the next village, she asked the rats how many of them there were.

“There are ten of us in each house,”
said Mrs. Rat.



ten

twenty

thirty

forty

10

20

30

40



Oh...there are lots of rats in this town.
One hundred rats in each building!

one
hundred

100

two
hundred

200

three
hundred

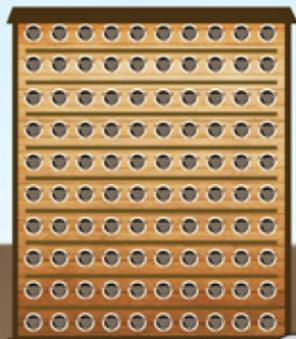
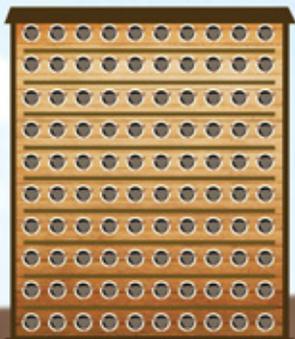
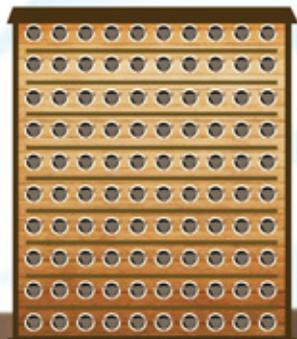
300

four
hundred

400

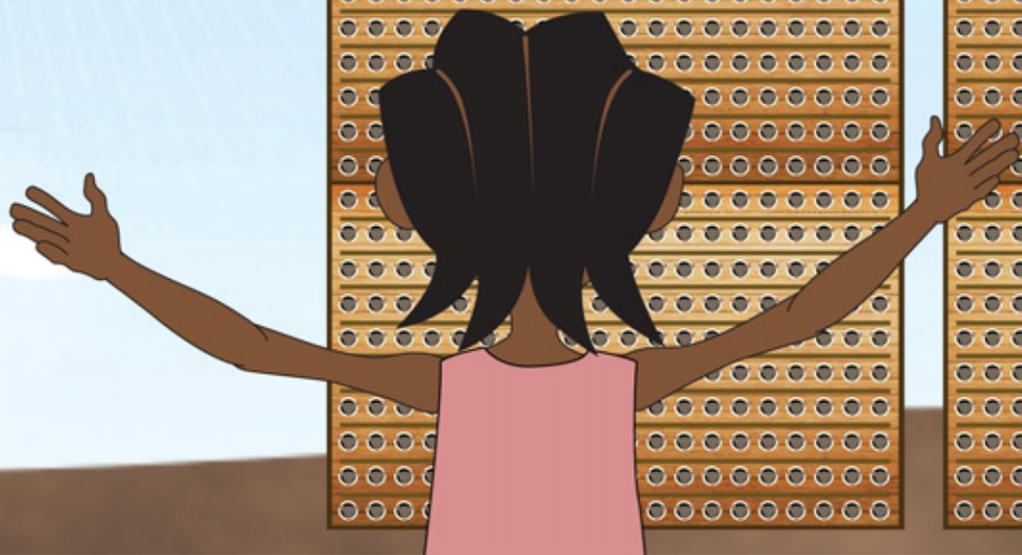
five
hundred

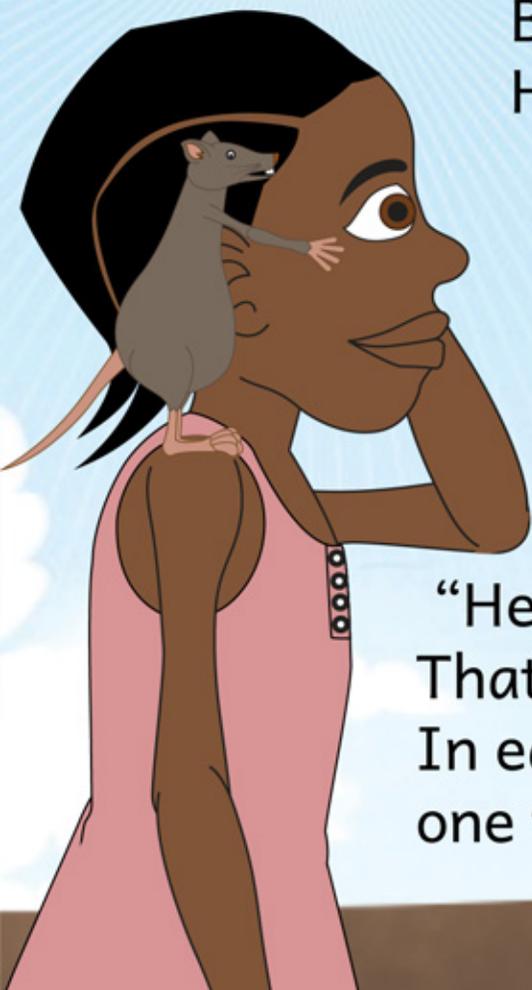
500



Then she came
to the city.

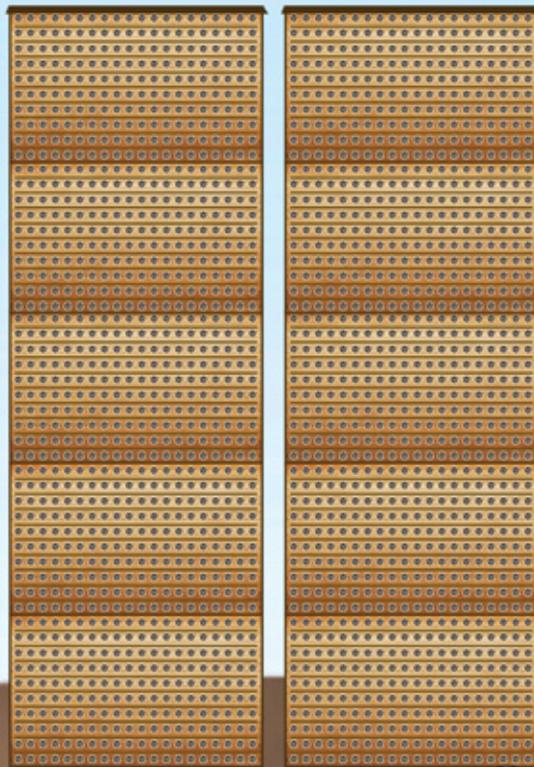
“Skyscrapers full
of rats? How can
I count them all?”





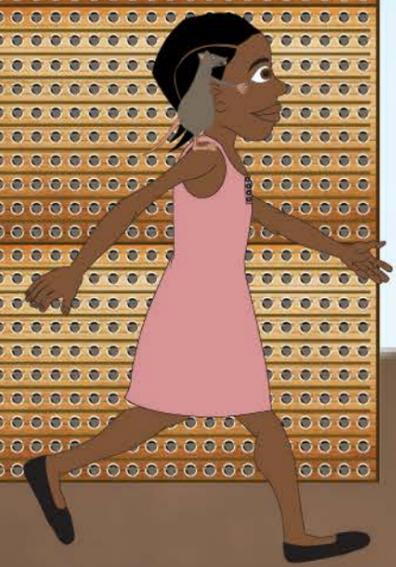
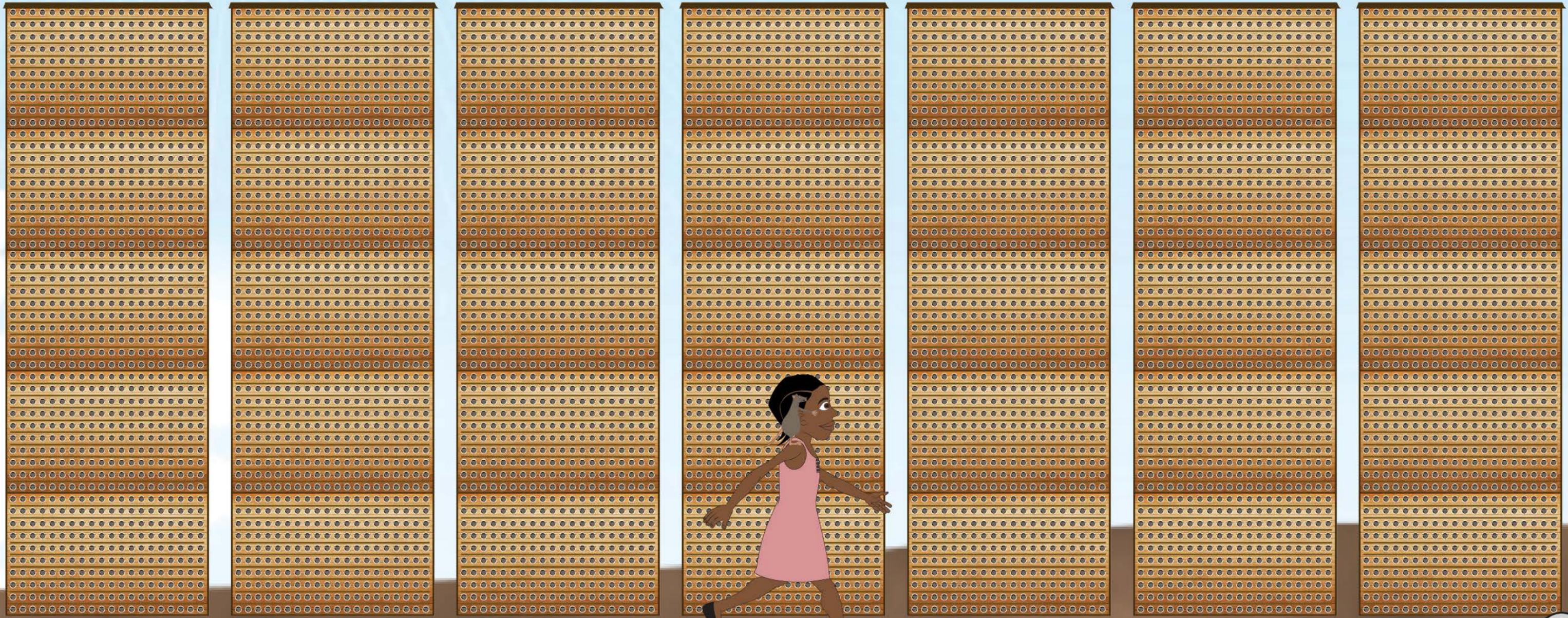
But she got a hint from a friendly rat.
He hopped on her shoulder and said,

“Hey, use your UBONGO.
That’s your brain!
In each building there are
one thousand rats.”



“I GET it!

one thousand 1,000
two thousand 2,000
three thousand 3,000
four thousand 4,000
five thousand 5,000
six thousand 6,000
seven thousand 7,000

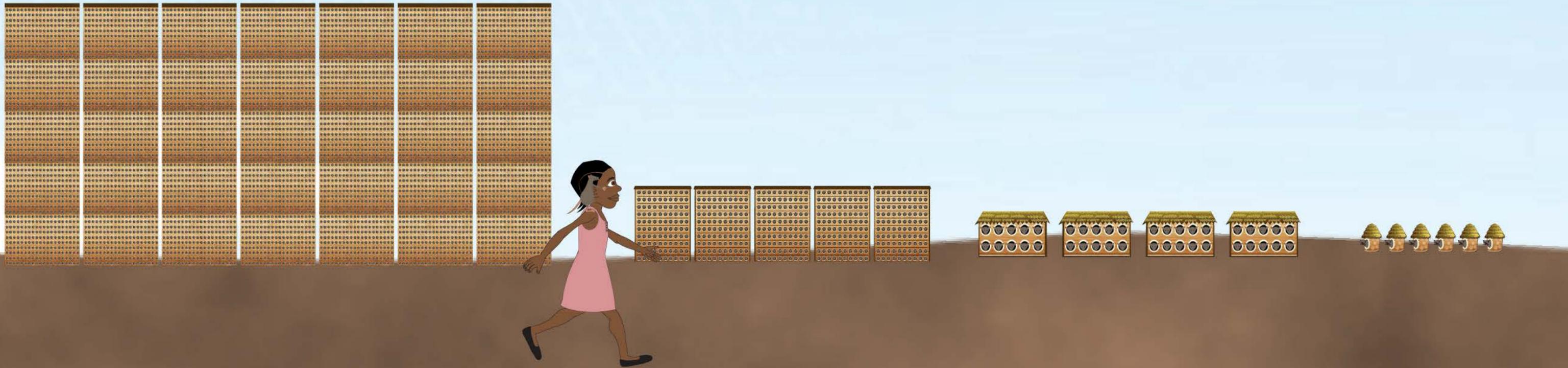


Seven thousand
7,000

five hundred
500

forty
40

six
6



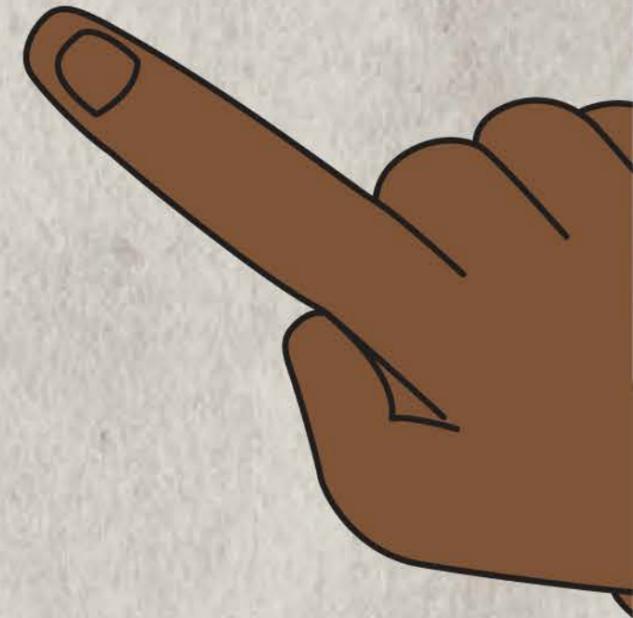
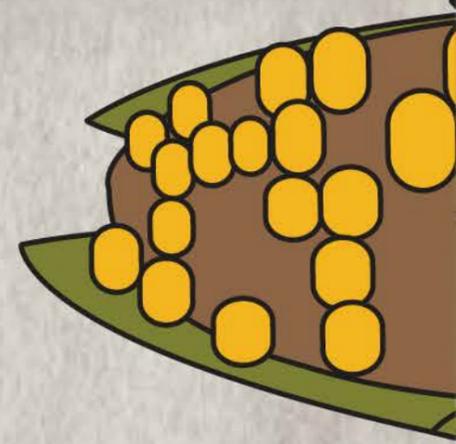
rats altogether,” counted Kibena.

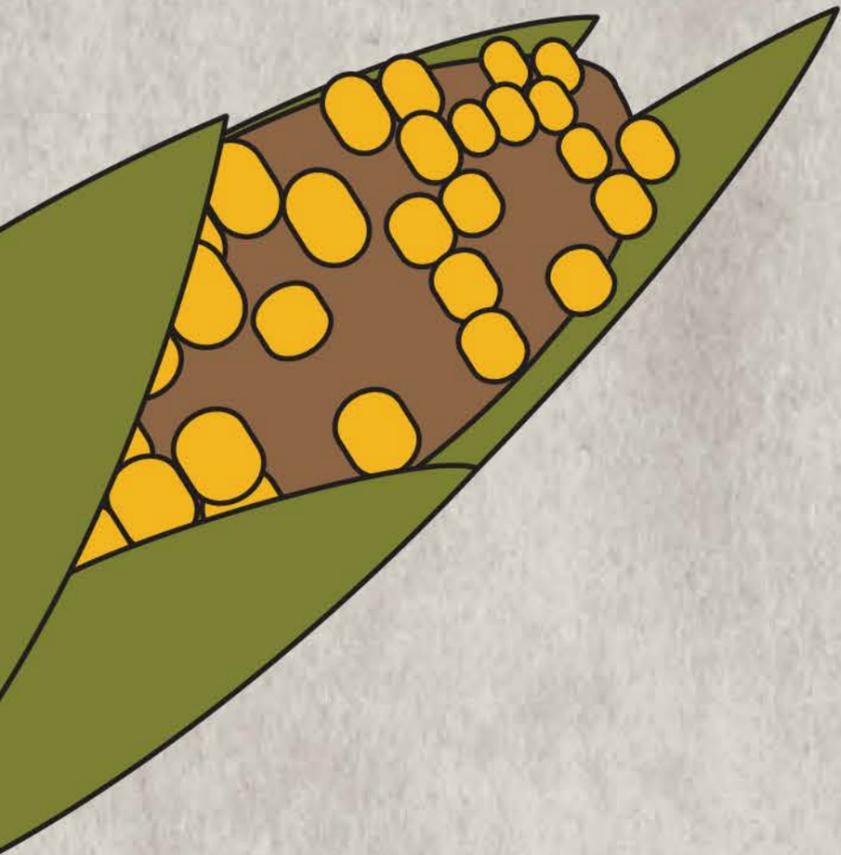
Kibena made sure that the place values of each number were lined up above each other correctly:

ones
tens
hundreds
thousands

thousands hundreds tens ones

7,000
500
40
6





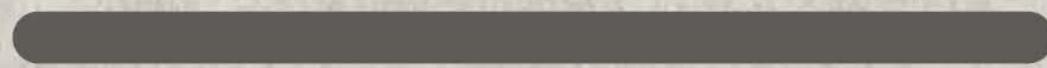
7,000

500

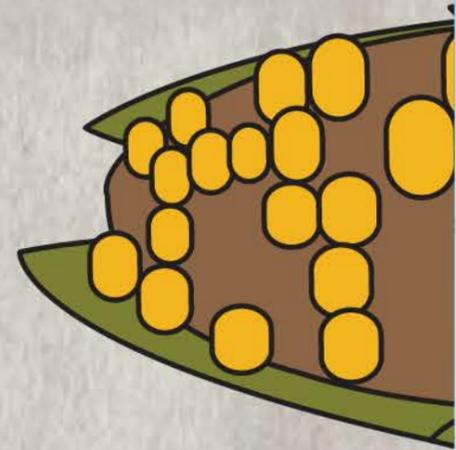
40

+

6

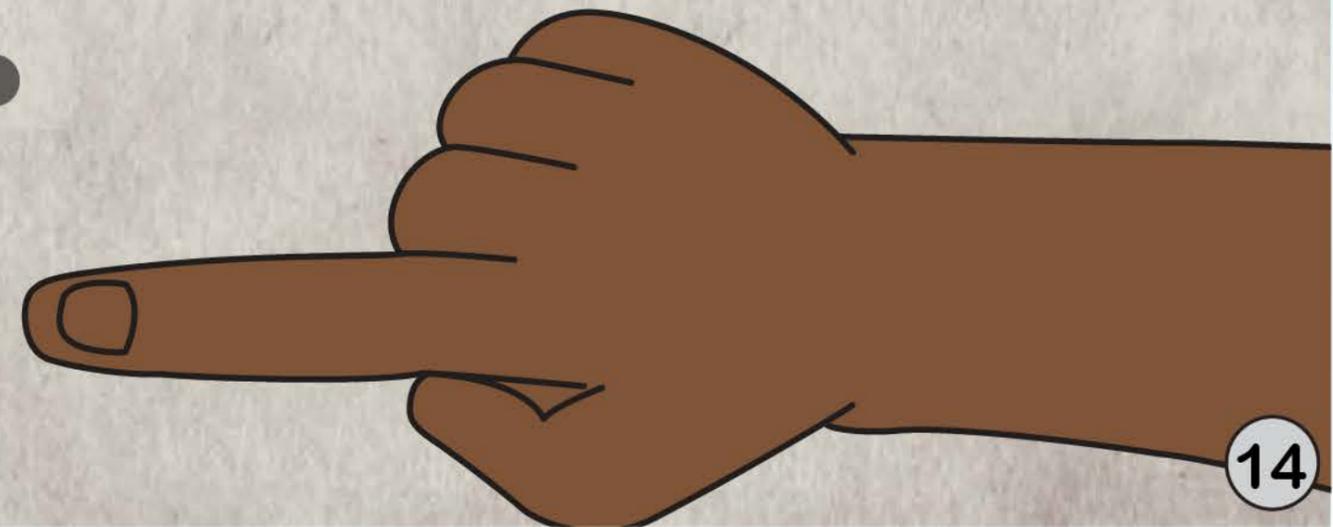


7,546



She **added** and got

seven thousand,
five hundred forty six.



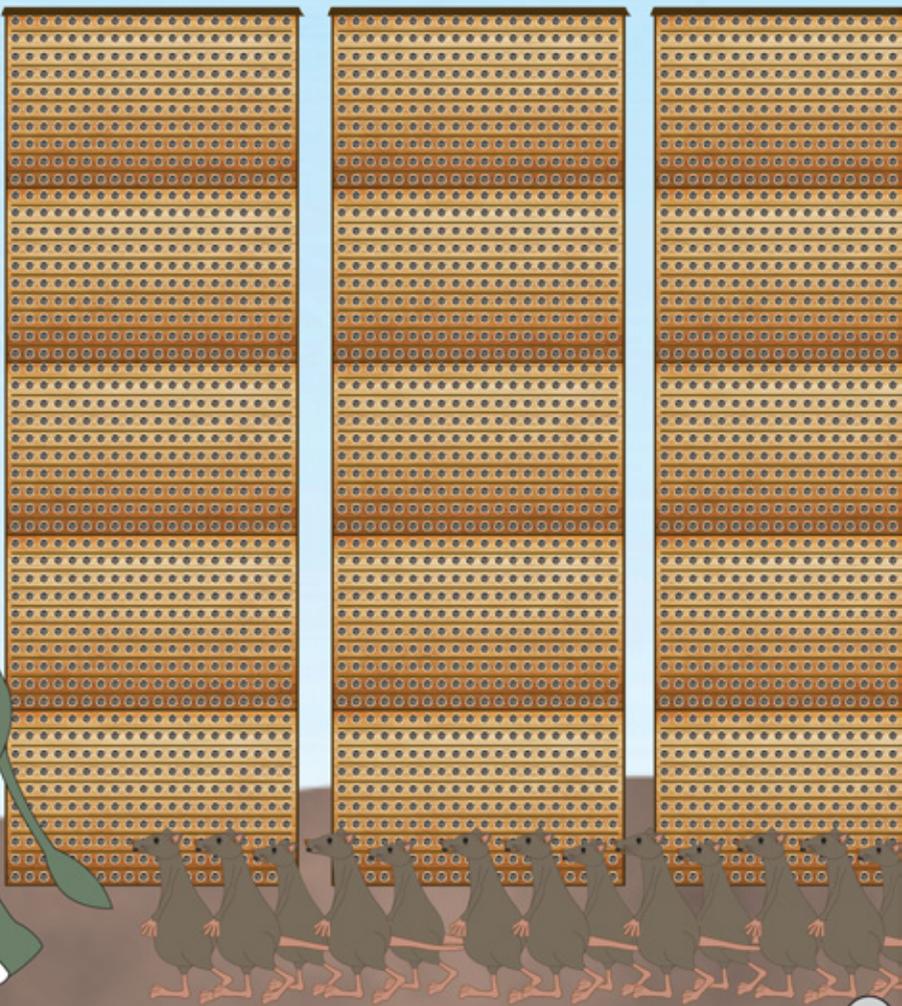
“Now it’s time to move you all to a better place where there is plenty of fruit to eat,” said Kibena.

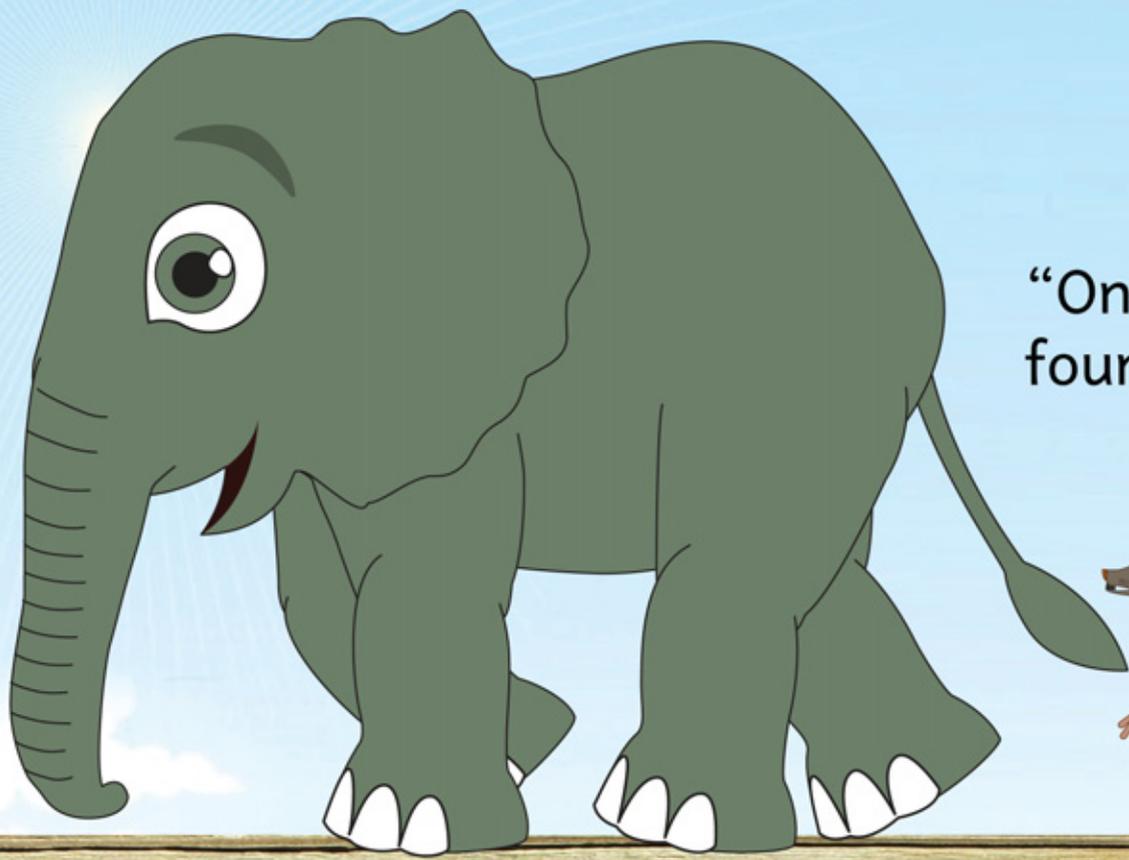


Kibena called Tiny Tembo and asked him to blow his trunk like a trumpet. “If you blow music, I just know the rats will follow you!”

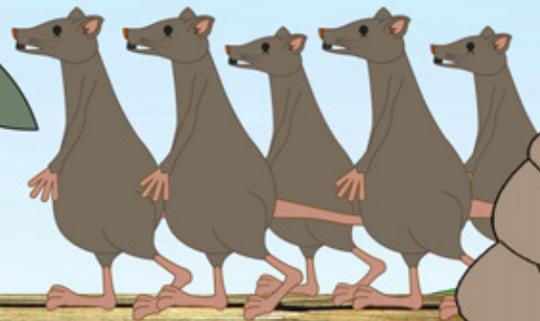


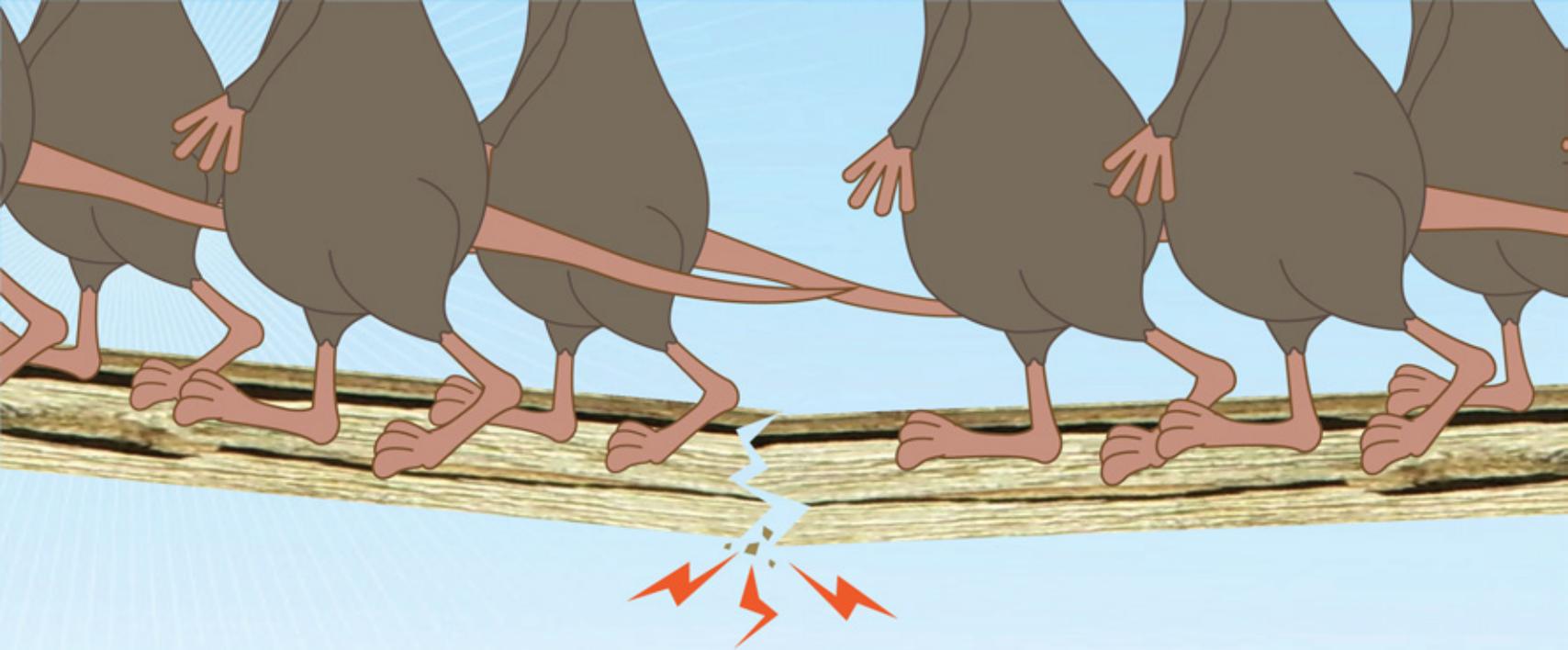
So Tiny Tembo blew his trunk...and the rats marched along behind him, towards the forest.





“One, two, three,
four, five...”

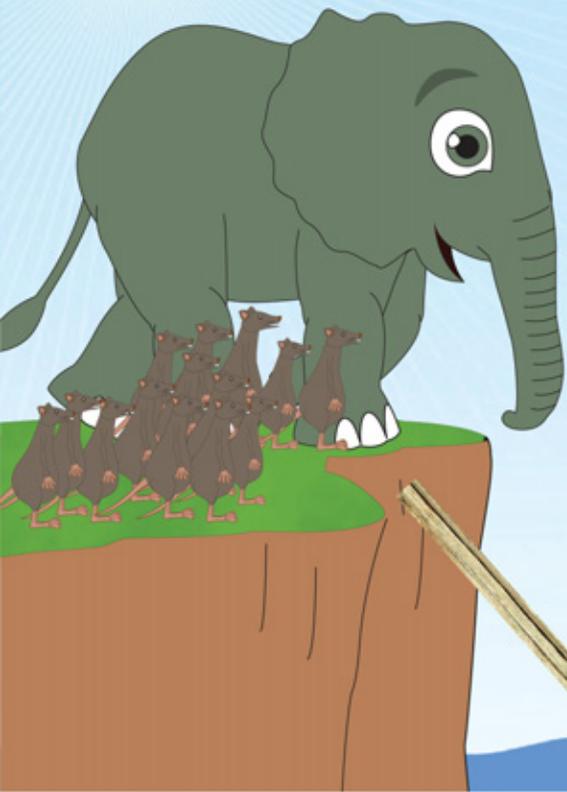




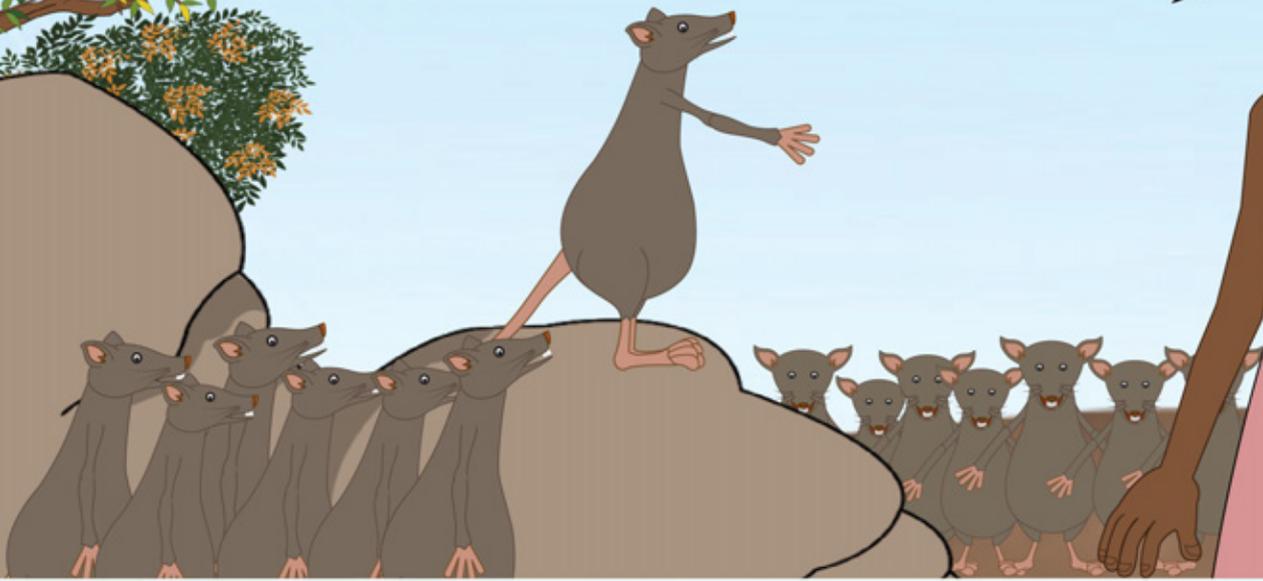
...seven thousand ninety nine, seven thousand one hundred!” When the seven thousand one hundredth rat crossed the bridge, it broke!

“The bridge is gone!
How will the other rats cross?”

asked Mr. Rat.



Kibena first wanted to figure out how many rats were left on the other side.



She knew that there were

seven thousand five hundred
and forty six

rats all together, and that

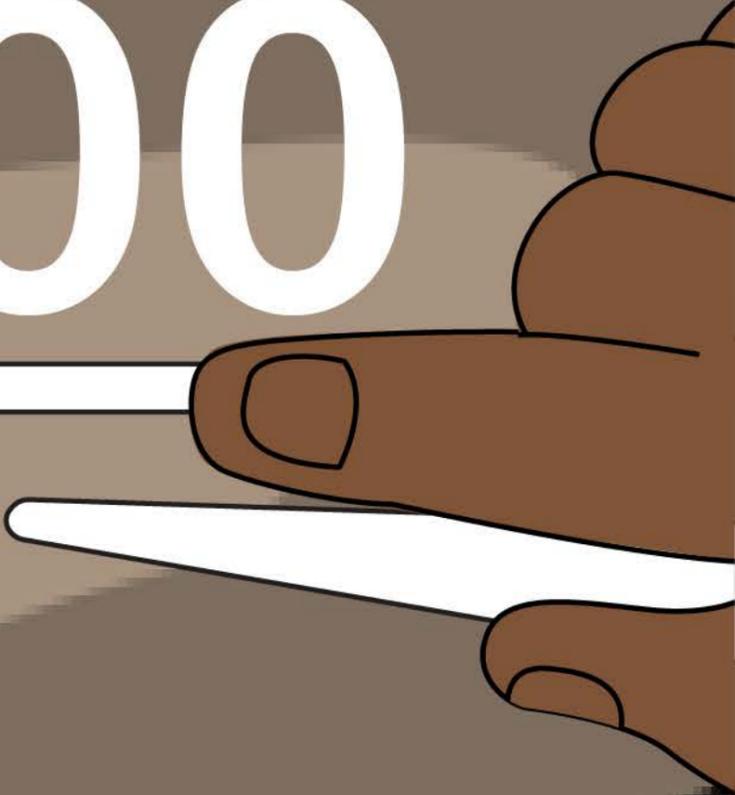
seven thousand one hundred
had already crossed.

thousands

hundreds

tens

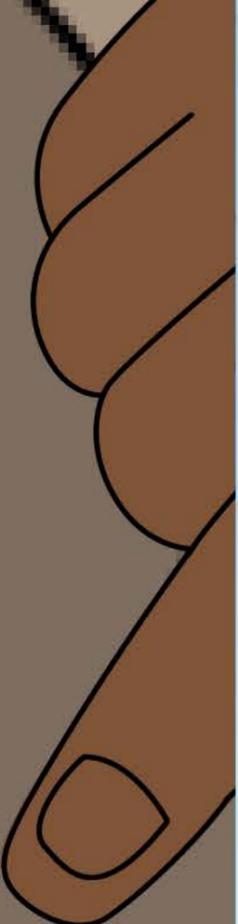
ones


$$\begin{array}{r} 7,546 \\ - 7,100 \\ \hline \end{array}$$

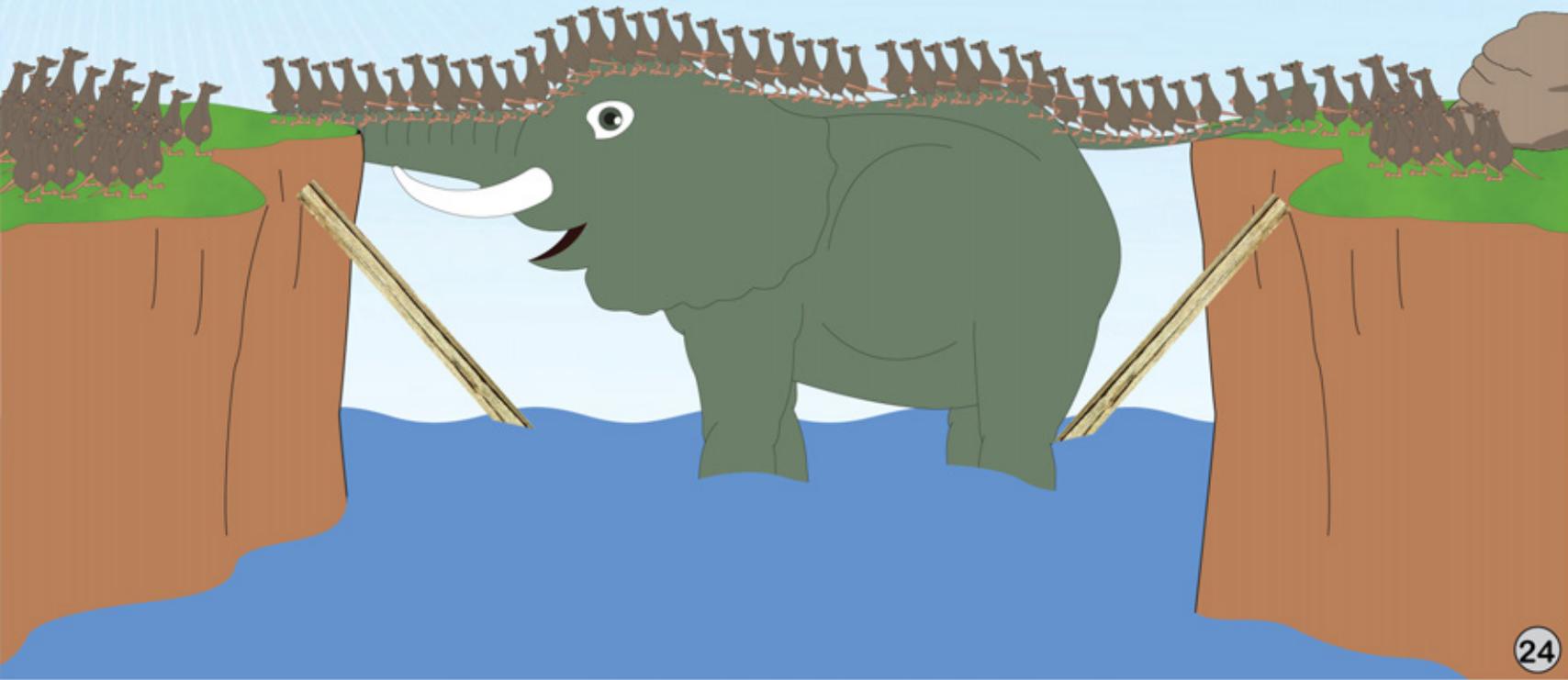
She **subtracted**.

Six **minus** zero is six,
four **minus** zero is four,
five **minus** one is four.

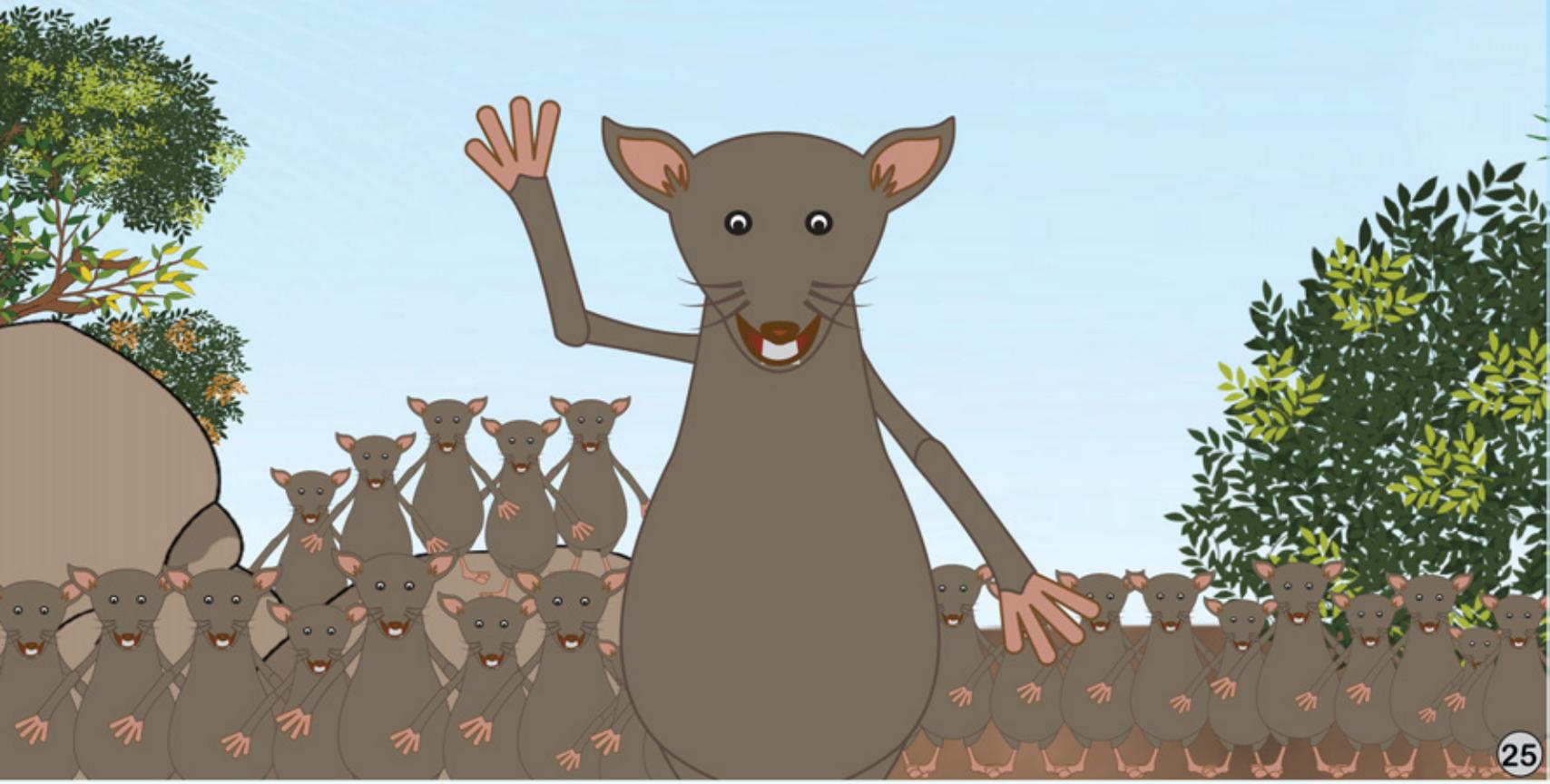
So four hundred and forty six
rats had not crossed.


$$\begin{array}{rcccc} & \text{thousands} & & \text{hundreds} & & \text{tens} & & \text{ones} \\ & 7 & , & 5 & 4 & 6 & & \\ - & 7 & , & 1 & 0 & 0 & & \\ \hline & & & 4 & 4 & 6 & & \end{array}$$

Tiny Tembo asked his dad to help the rats cross.
Senior Tembo told them to cross quickly before he got
too tired.

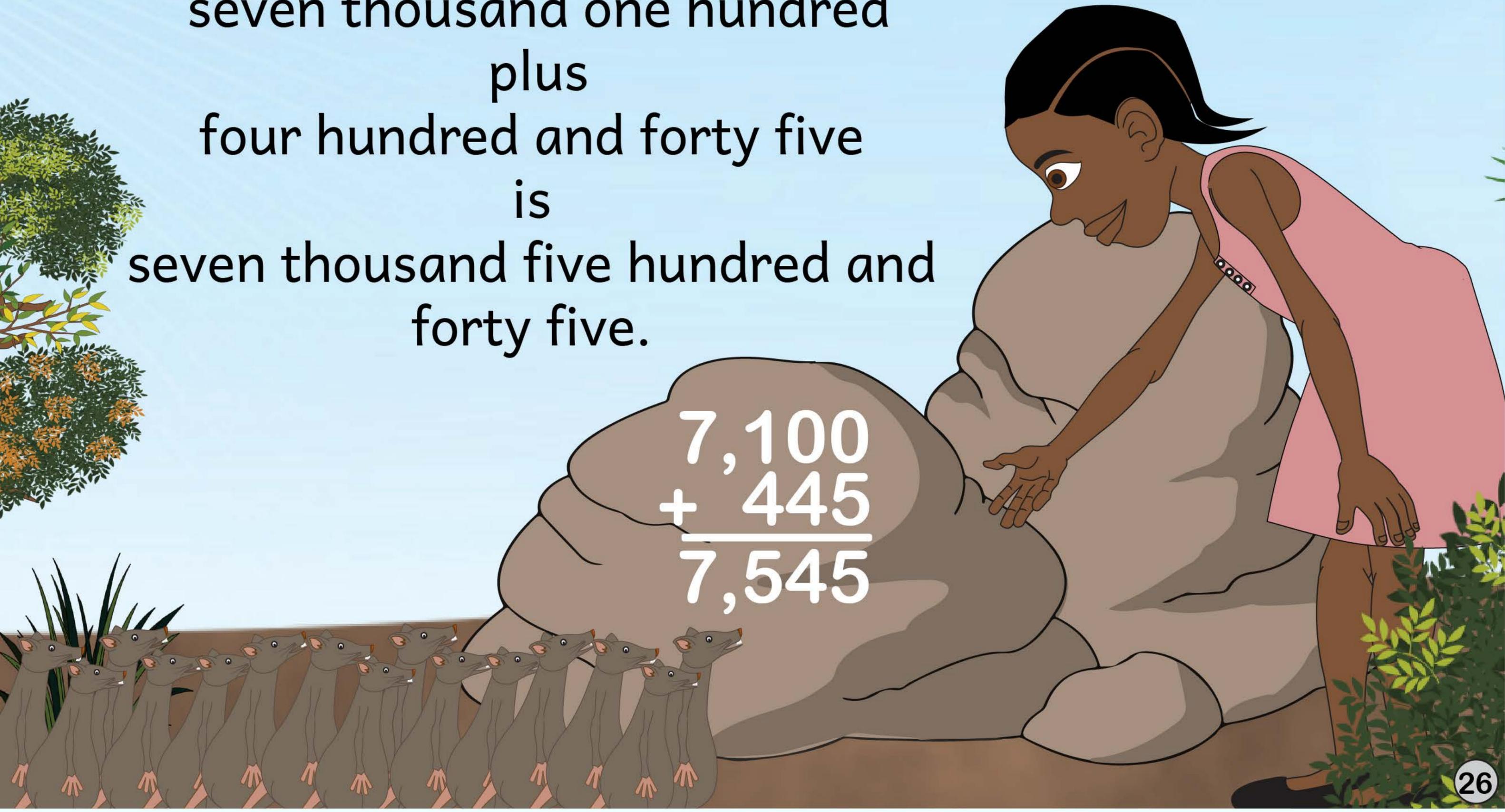


Mr. Rat asked Kibena to make sure that no rats were left behind.

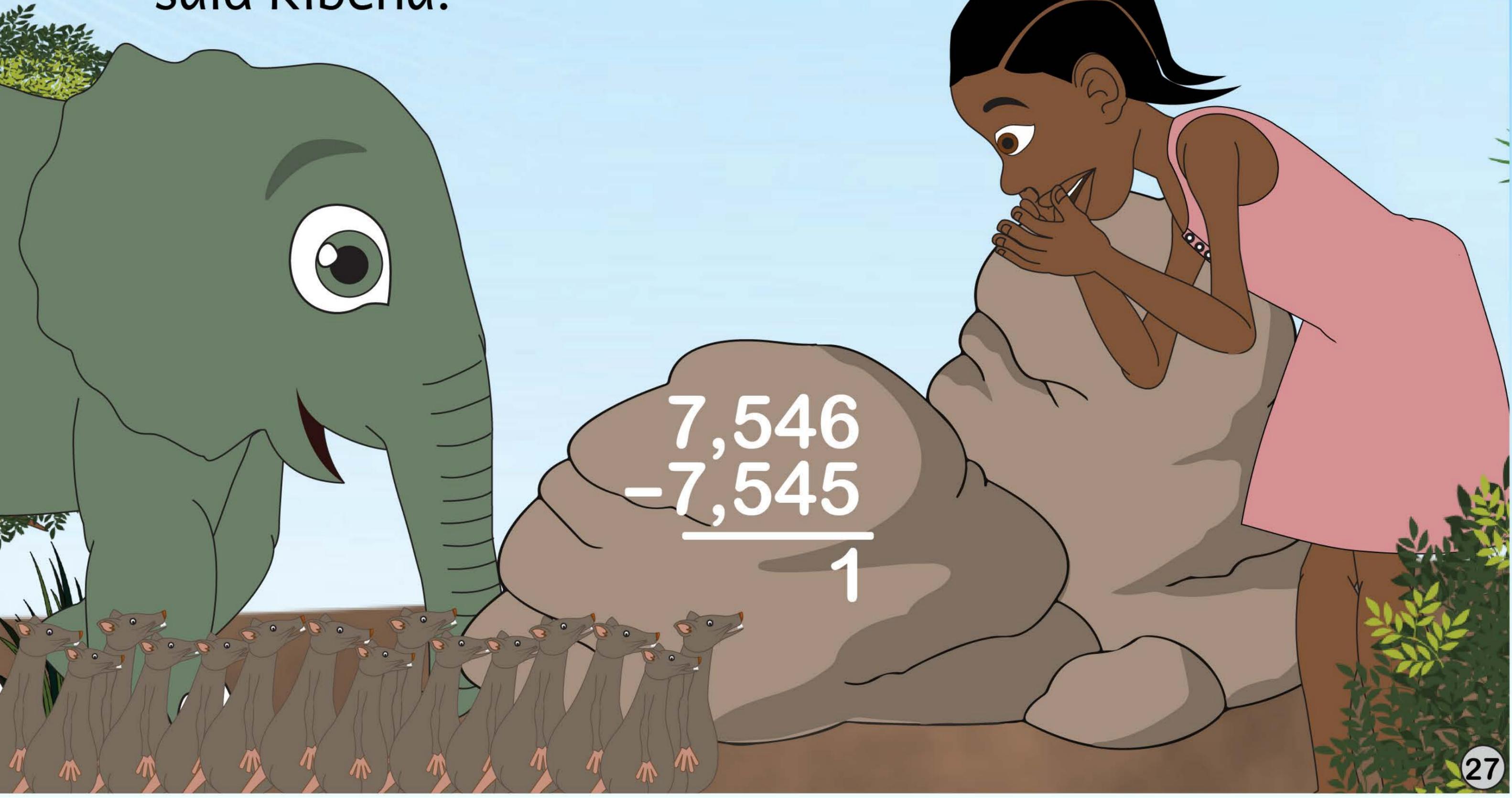


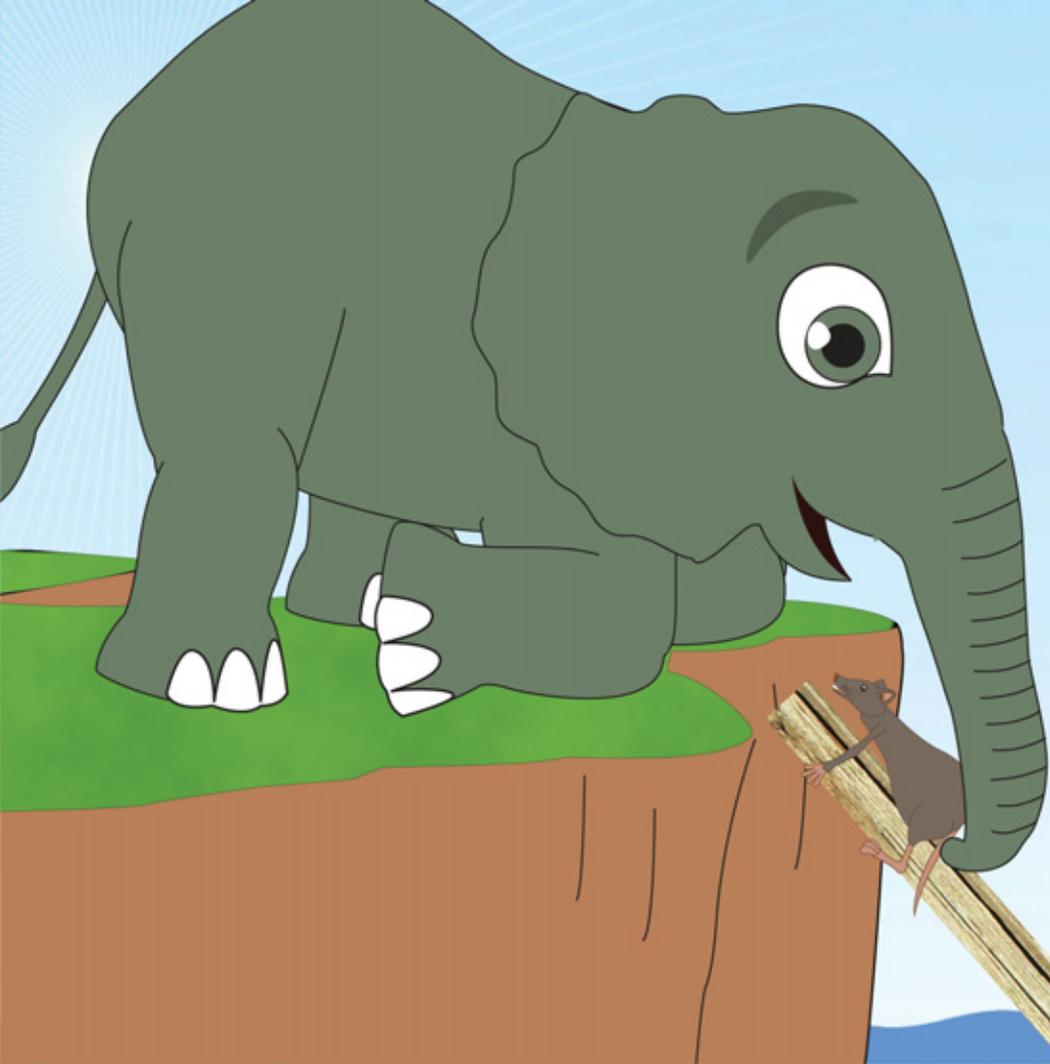
So Kibena added:
seven thousand one hundred
plus
four hundred and forty five
is
seven thousand five hundred and
forty five.

$$\begin{array}{r} 7,100 \\ + 445 \\ \hline 7,545 \end{array}$$



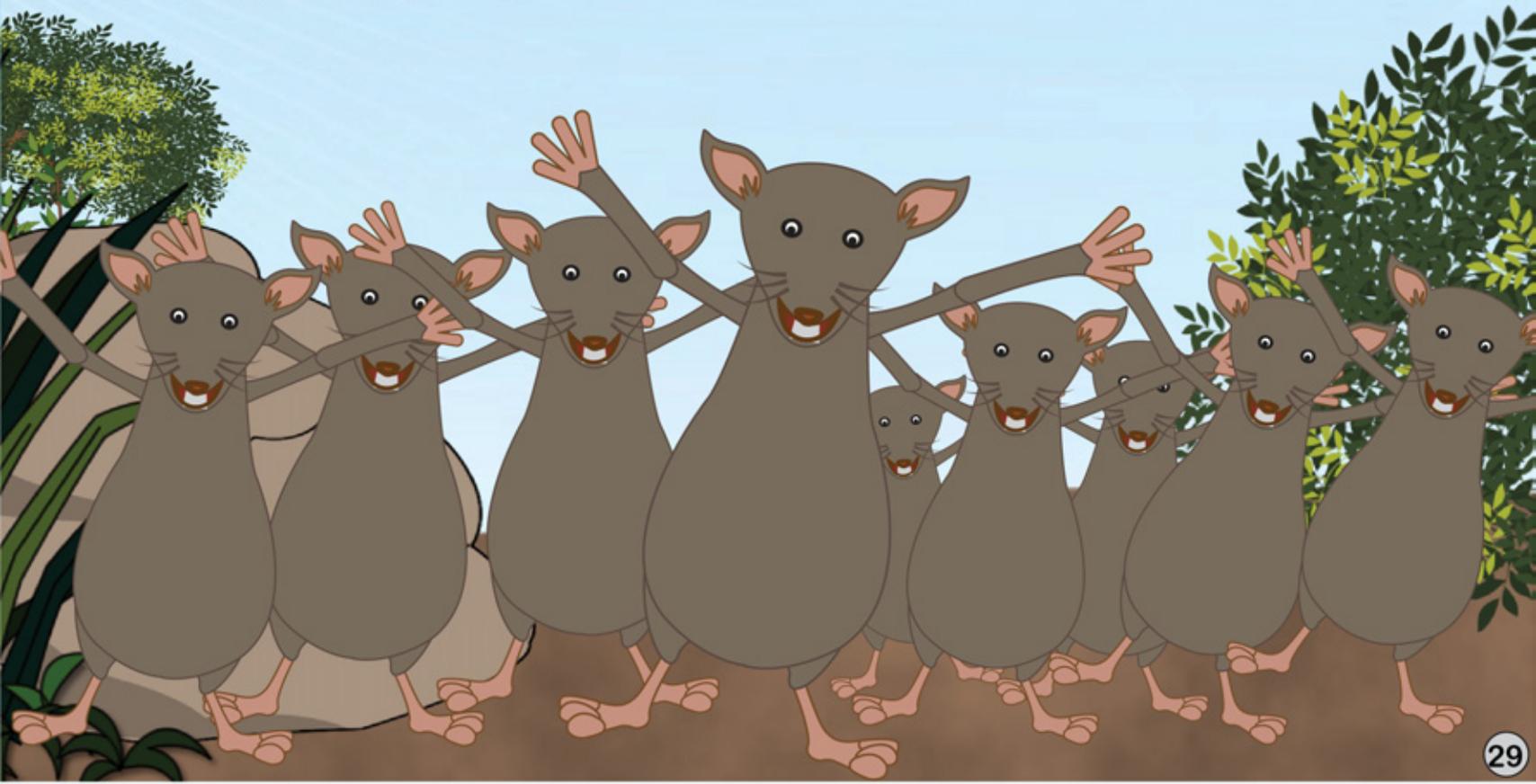
“Ahh...one of you is missing!”
said Kibena.





Tiny Tembo heard the sound of a rat crying for help. He jogged back to the bridge and scooped the last rat up with his trunk.

The rats were so happy in their new forest home.
They sang and danced and thanked Kibena.





The End

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