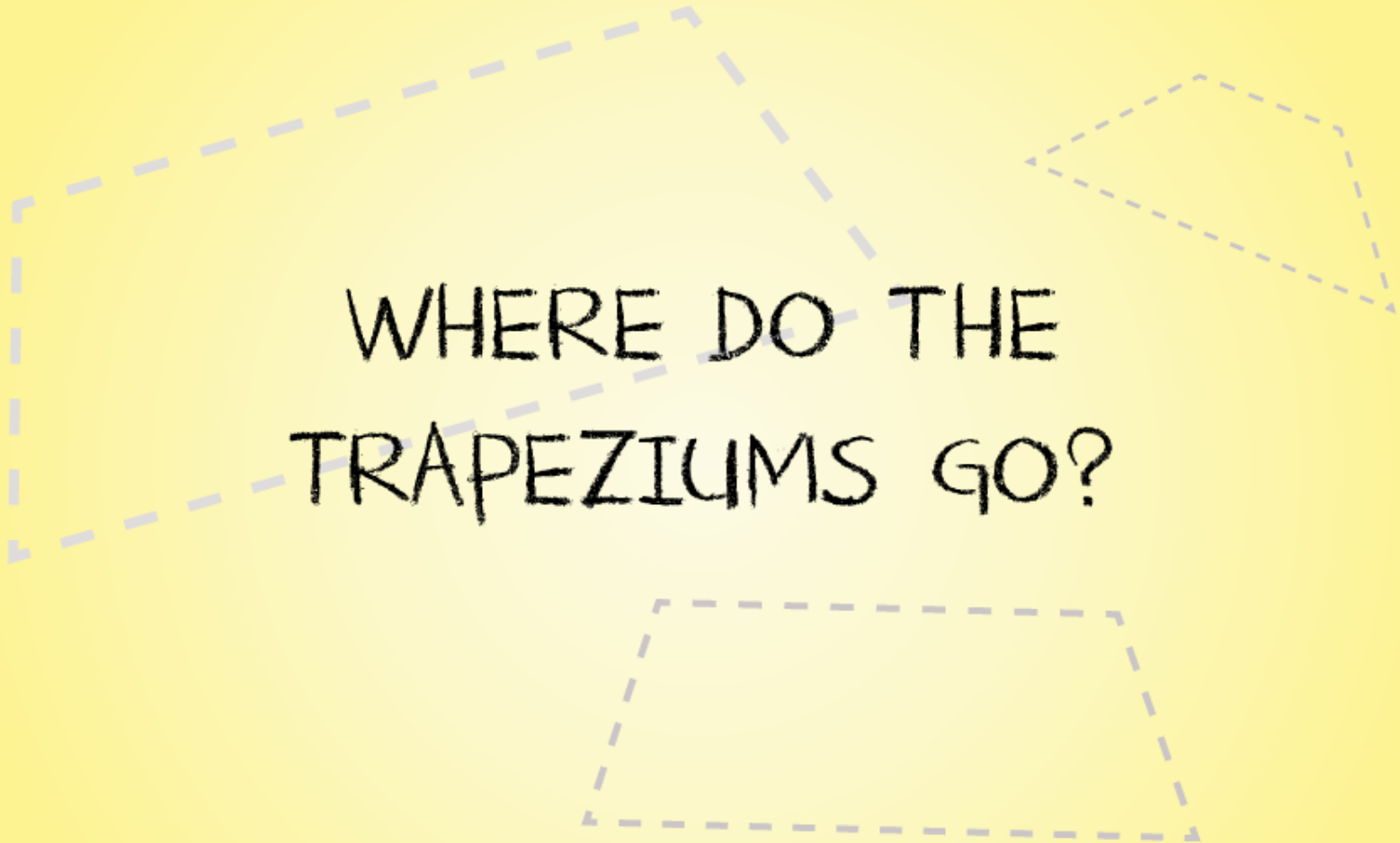
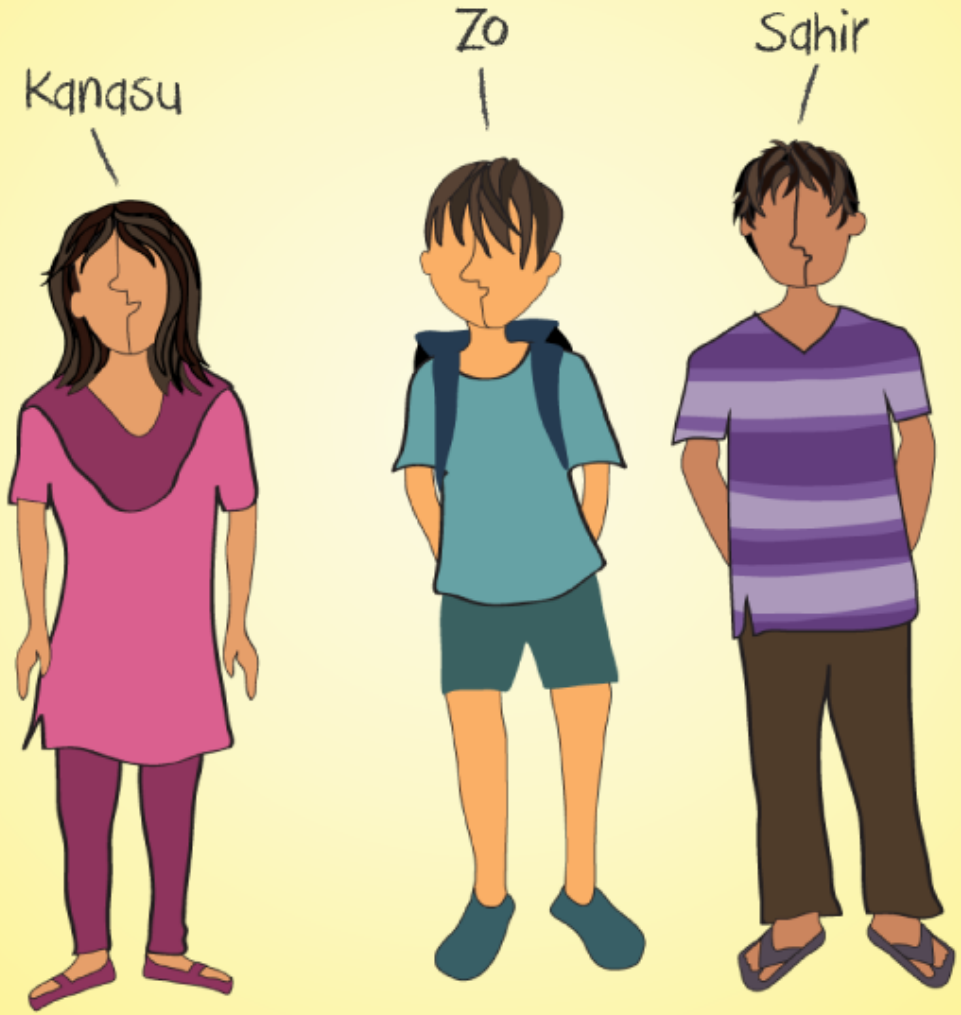
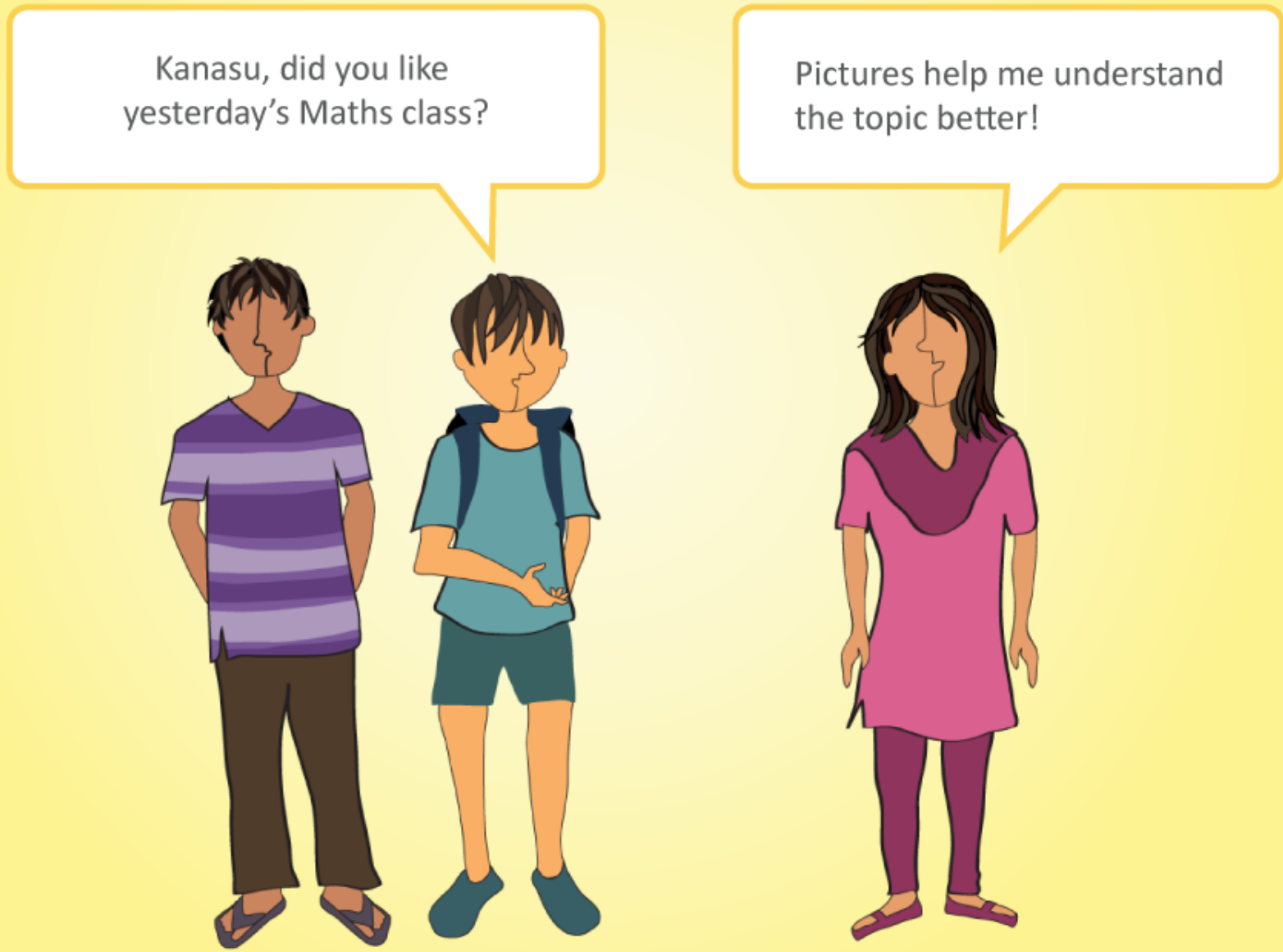
CLI CONNECTED LEARNING INITIATIVE

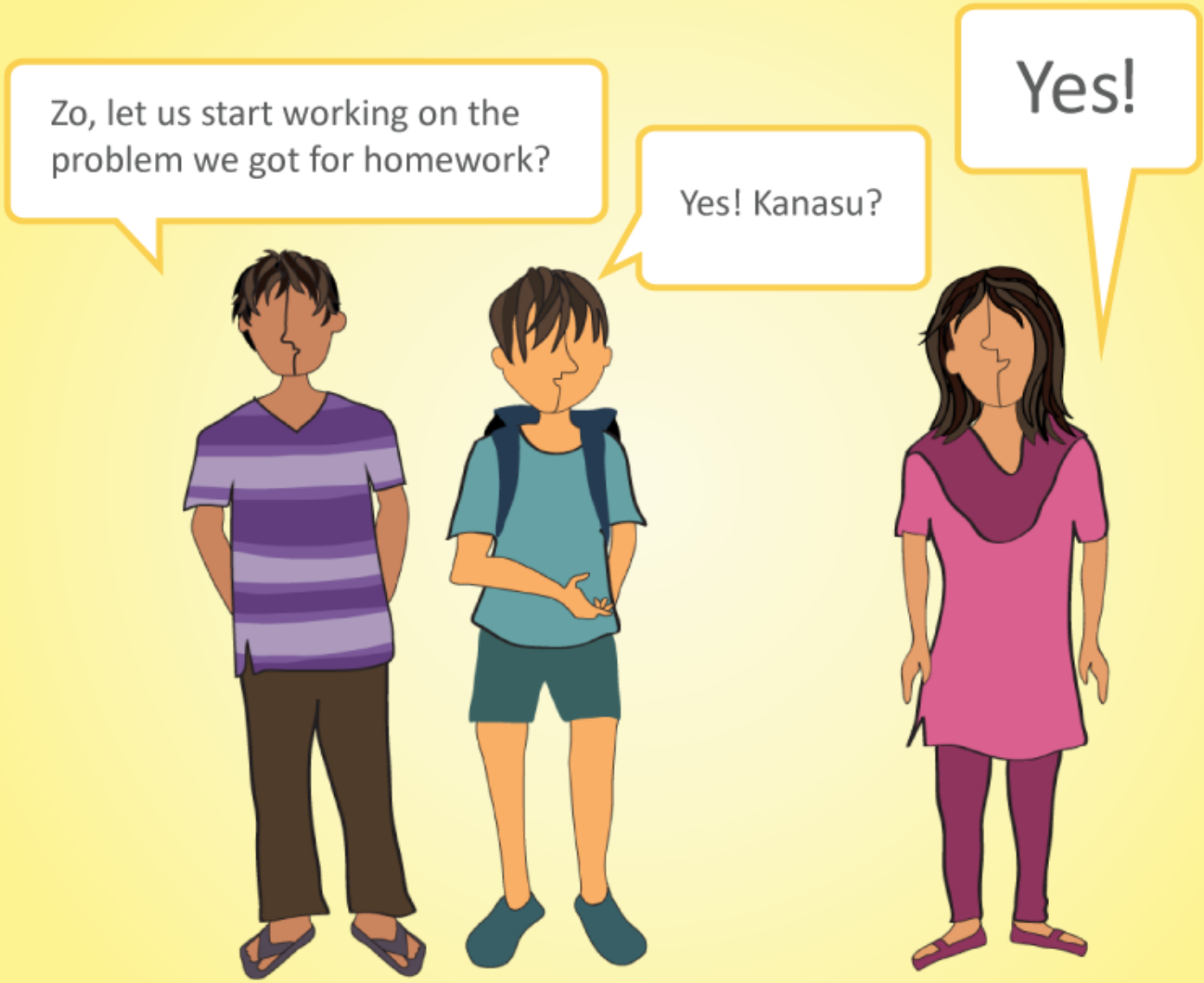


Kanasu, Zo and Sahir are friends

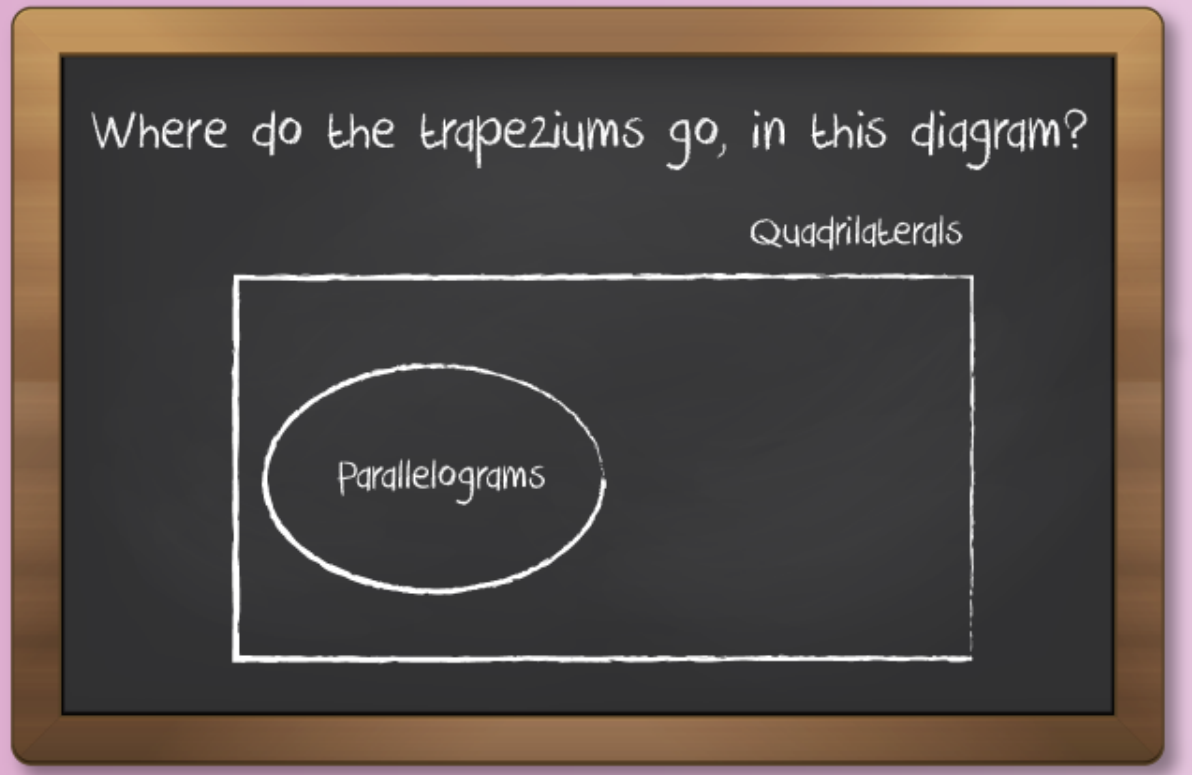


One day, Kanasu, Sahir and Zo sit to study geometry together.

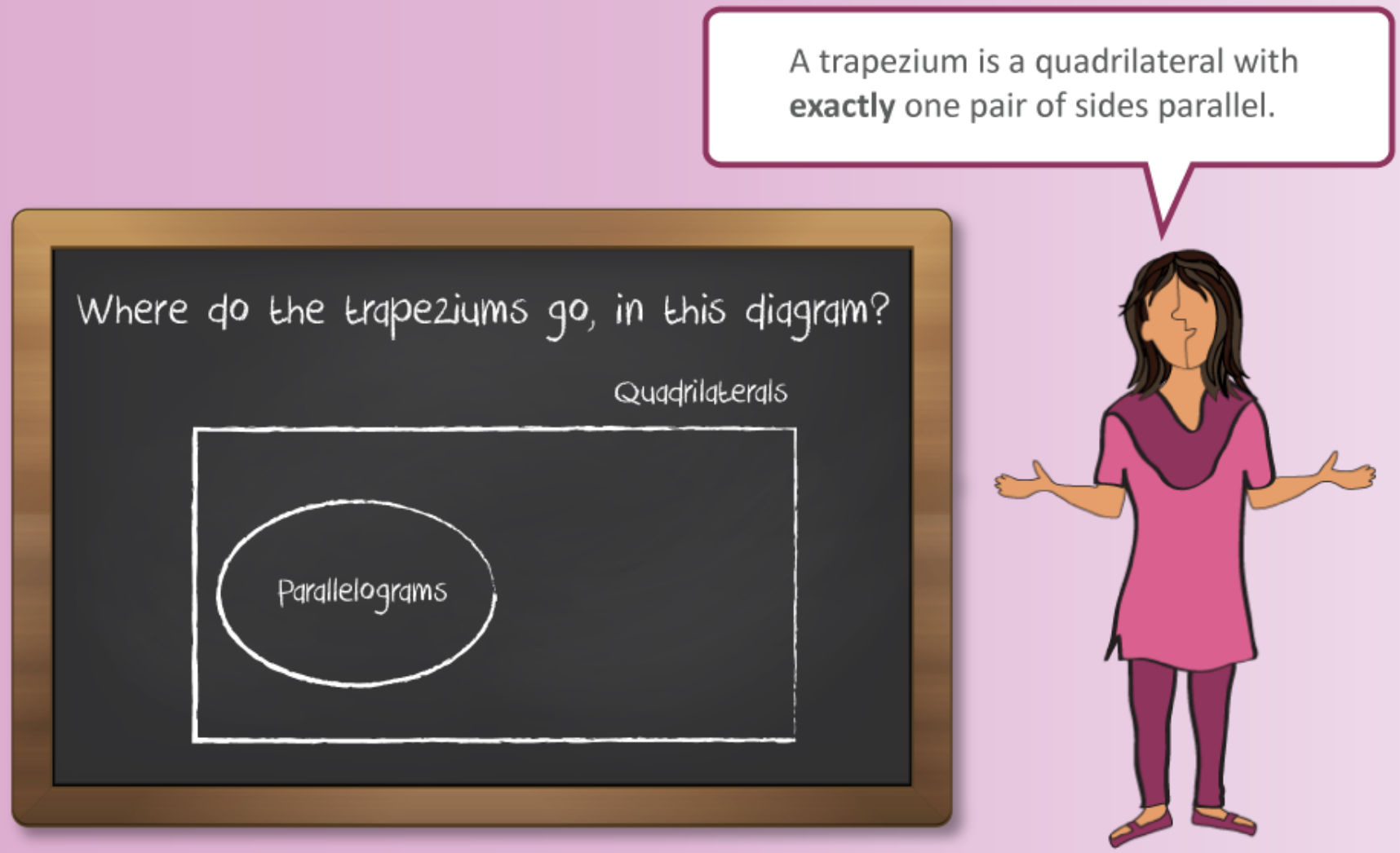



Zo, let us start working on the problem we got for homework?
Yes! Kanasu?
Yes!

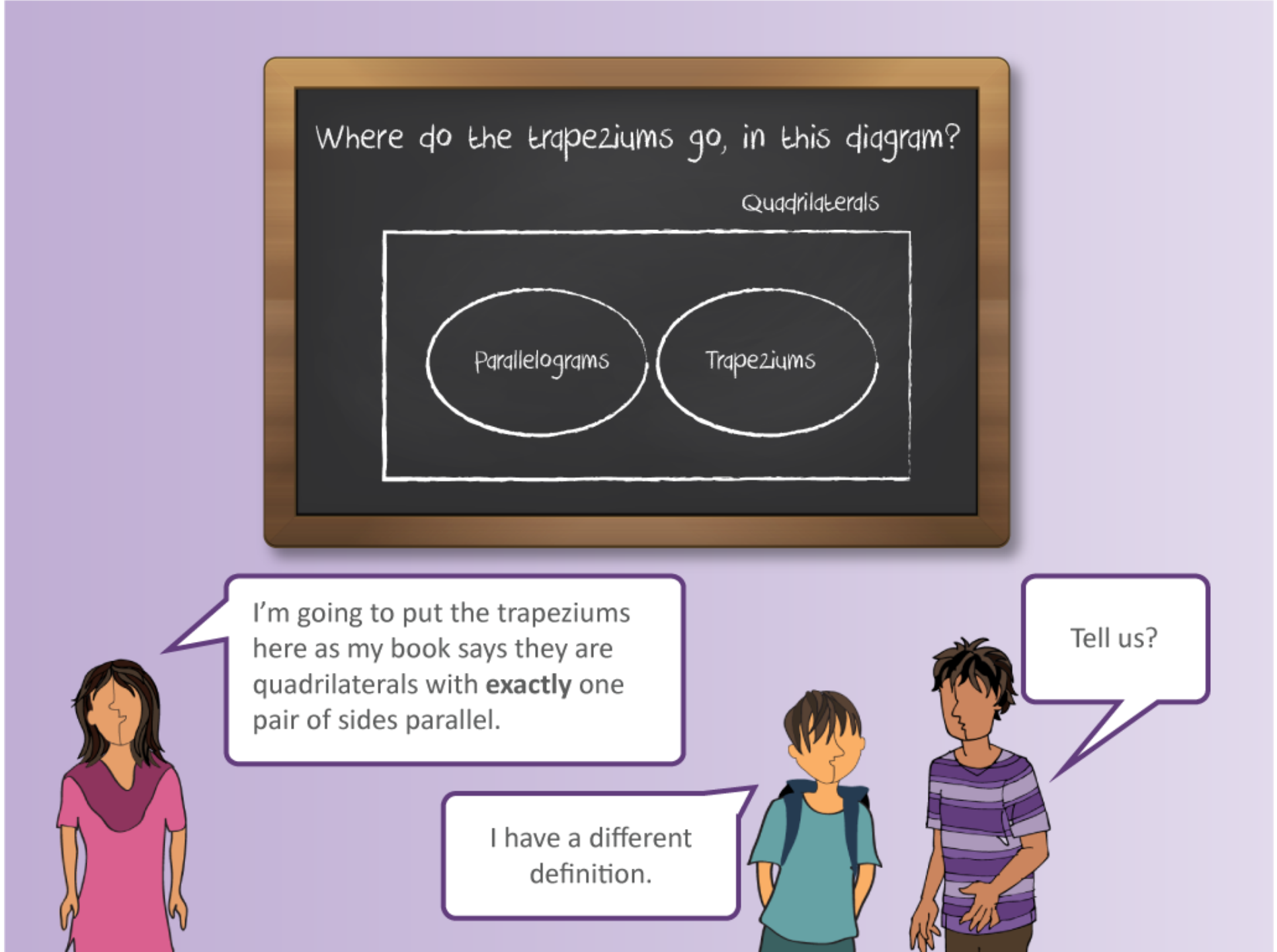
HOMEWORK


Where do the trapeziums go, in this diagram?
Quadrilaterals
Parallelograms

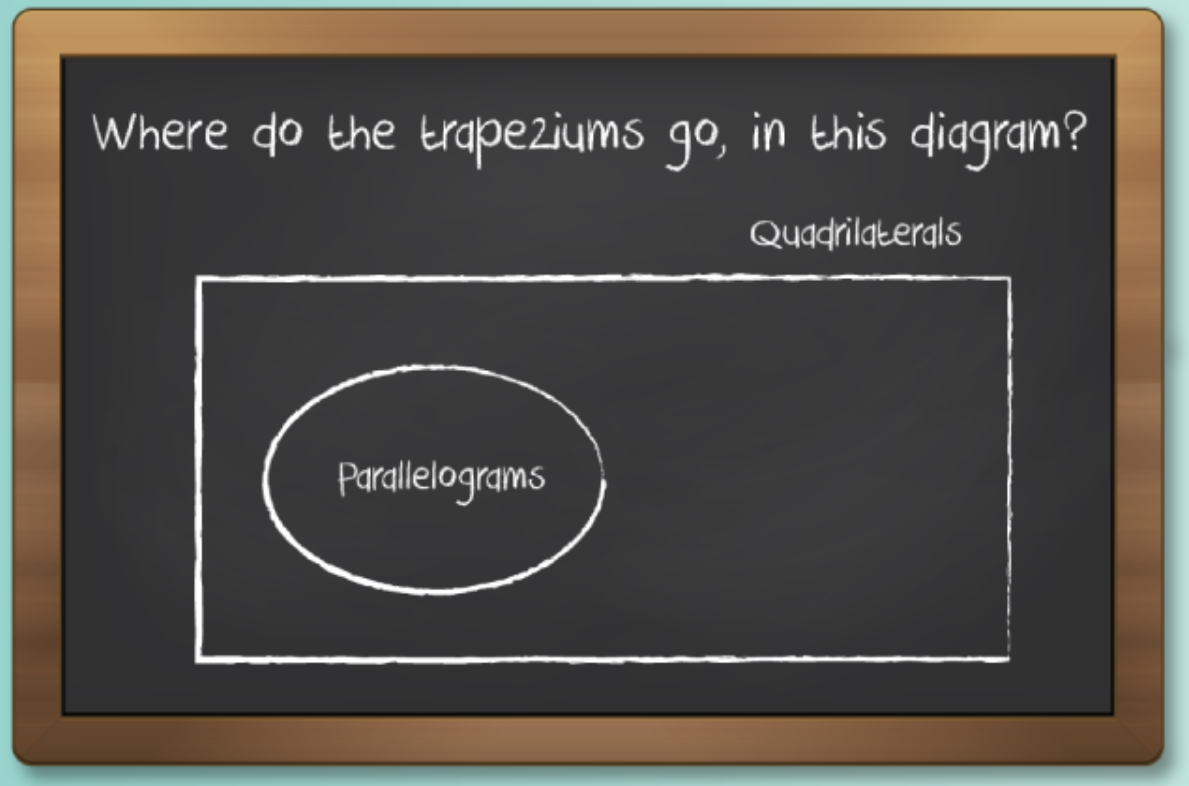
This was easy. I just checked the definition in the text book.



According to Kanasu's definition, where would you put the trapeziums in this diagram? Why?

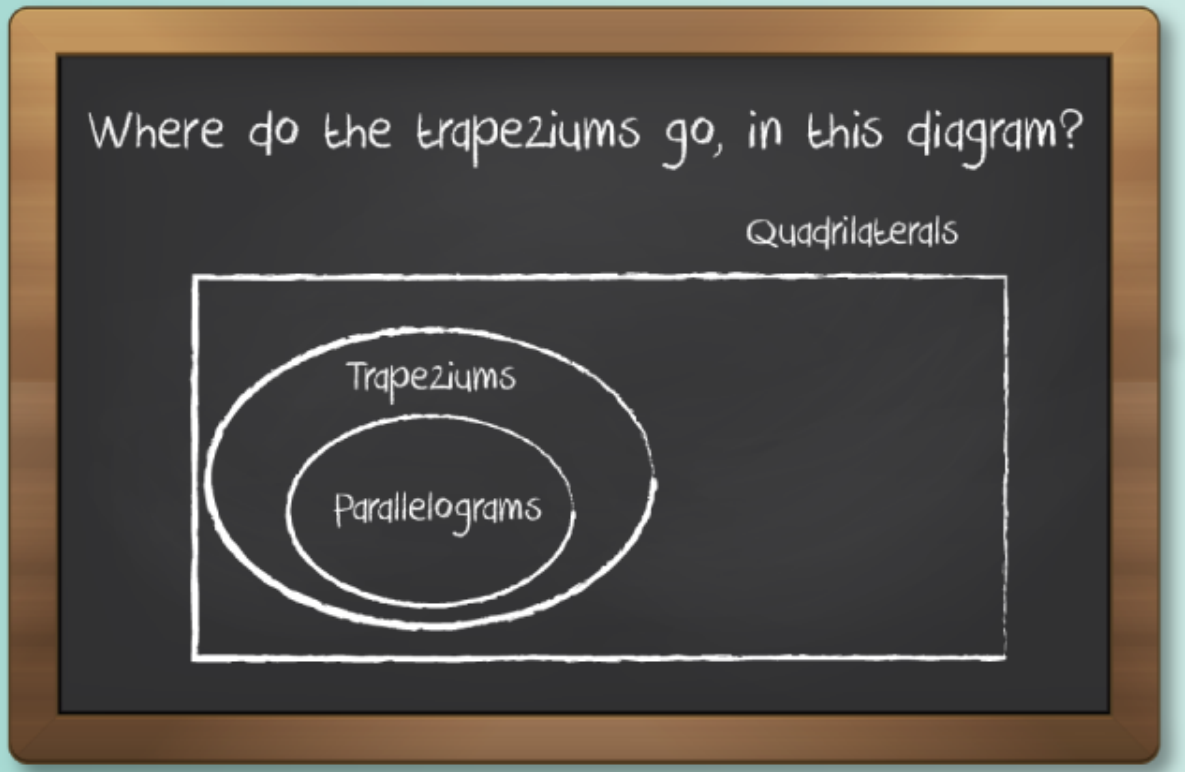

Where do the trapeziums go, in this diagram?
Quadrilaterals
Parallelograms
Trapeziums
I'm going to put the trapeziums here as my book says they are quadrilaterals with **exactly** one pair of sides parallel.
I have a different definition.
Tell us?

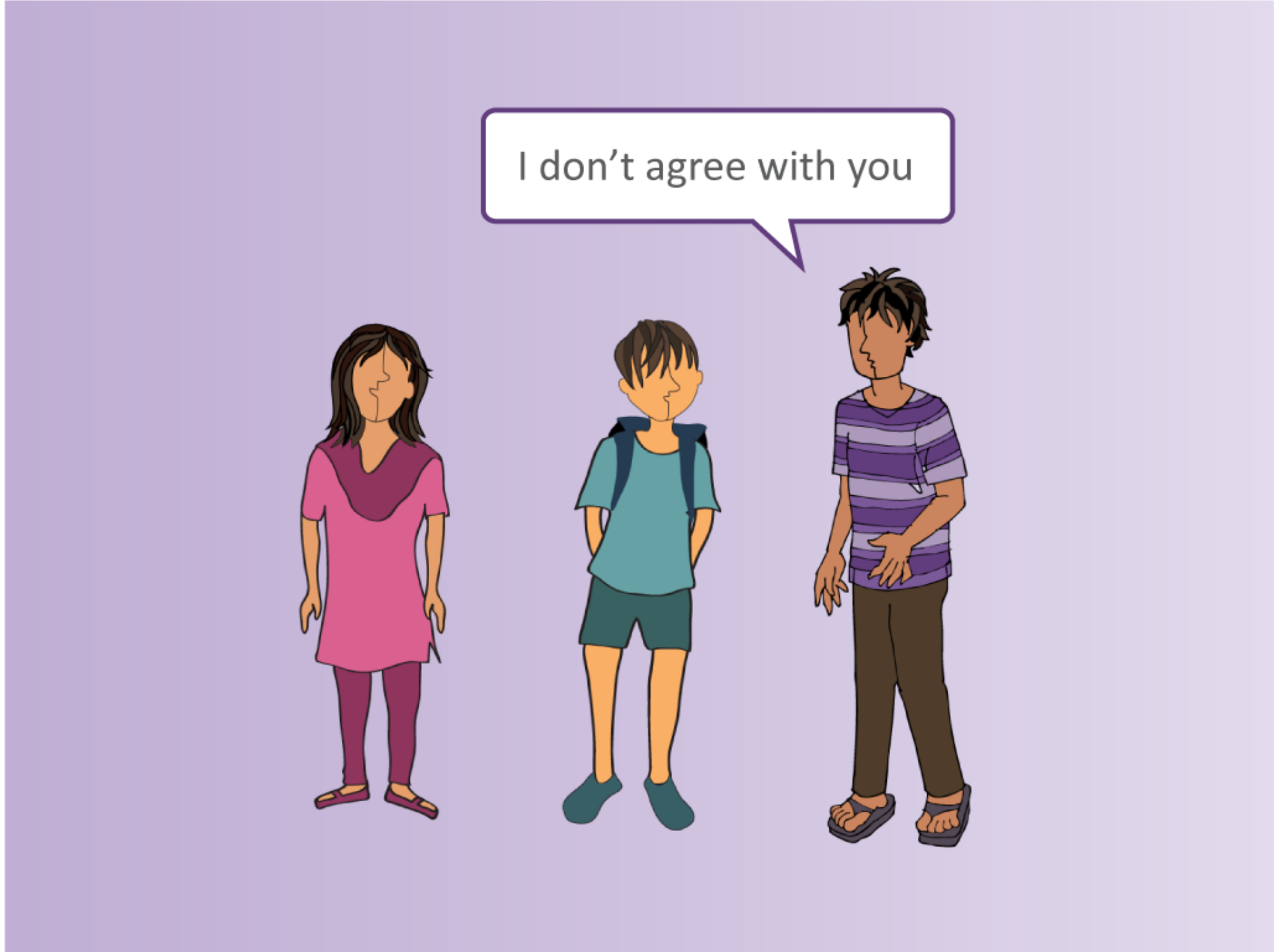
I don't agree with you, Kanasu. My teacher in my last school in Badapur said that "A trapezium is a quadrilateral with **at least** one pair of sides parallel."



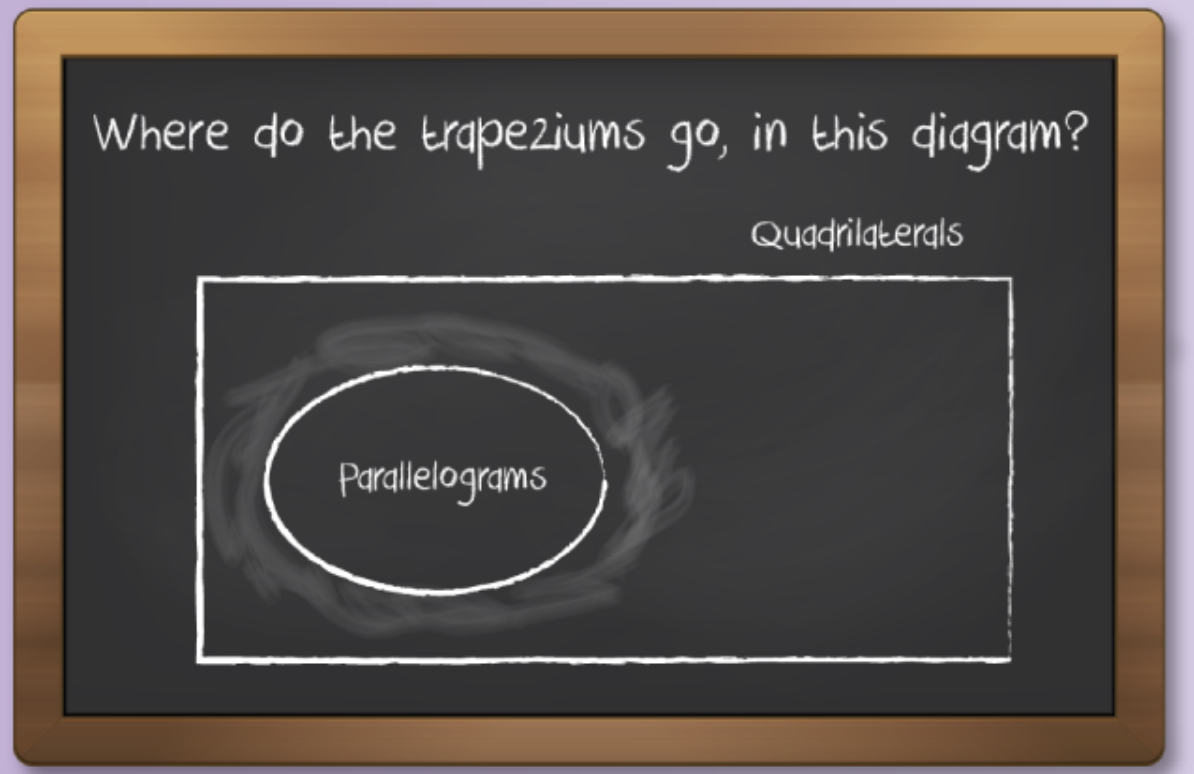
According to this definition, where would you put the trapeziums in this diagram? Why?

My teacher said a trapezium is a quadrilateral with **at least** one pair of sides parallel. So this is how I see it!



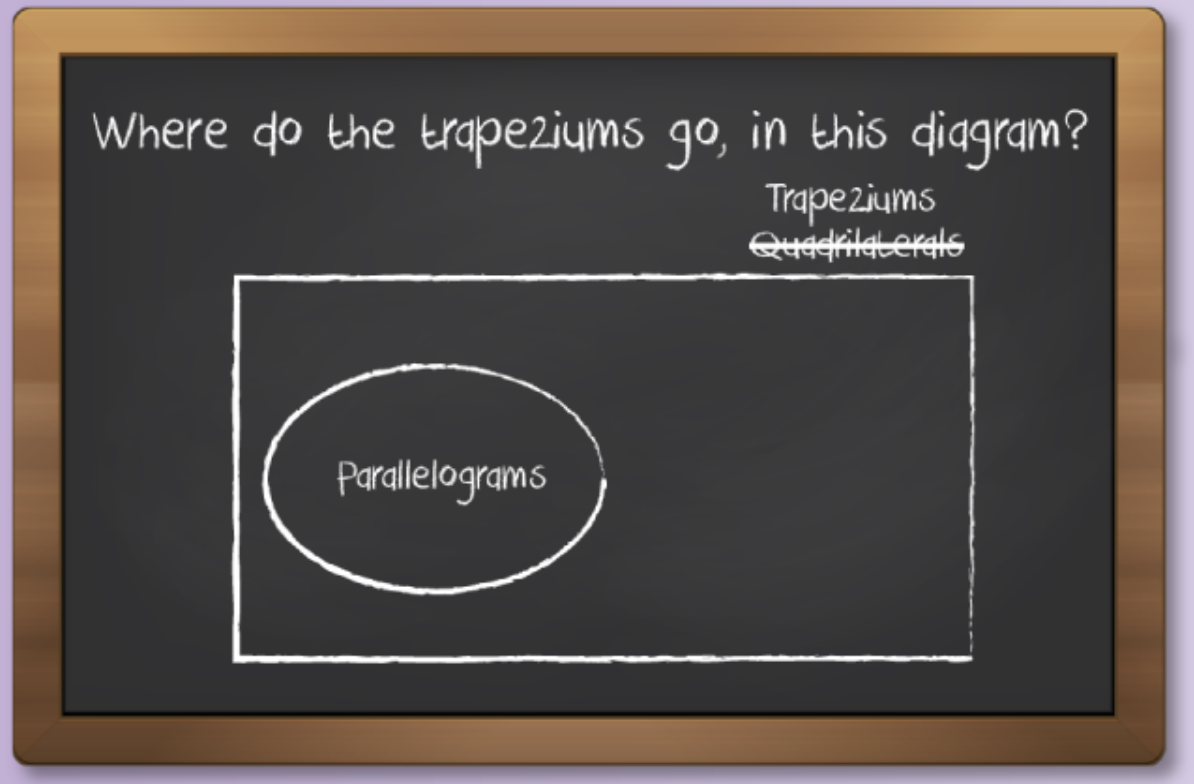

I don’t agree with you

I went to the computer lab and looked it up on the internet. The website I checked says"a trapezium is a quadrilateral **that may or may not have any parallel sides!**"

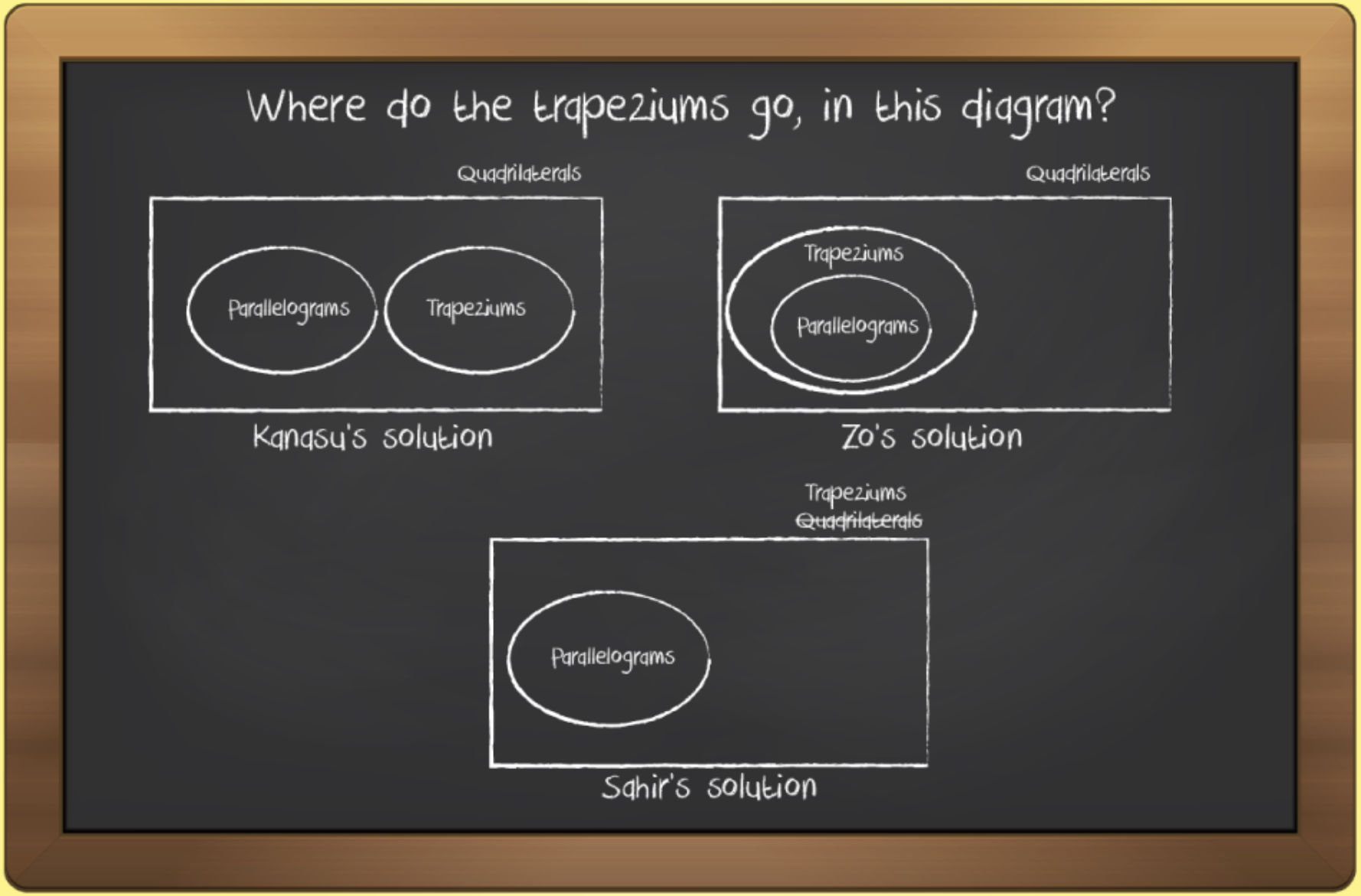


According to this definition, where would you put the trapeziums in this diagram? Why?

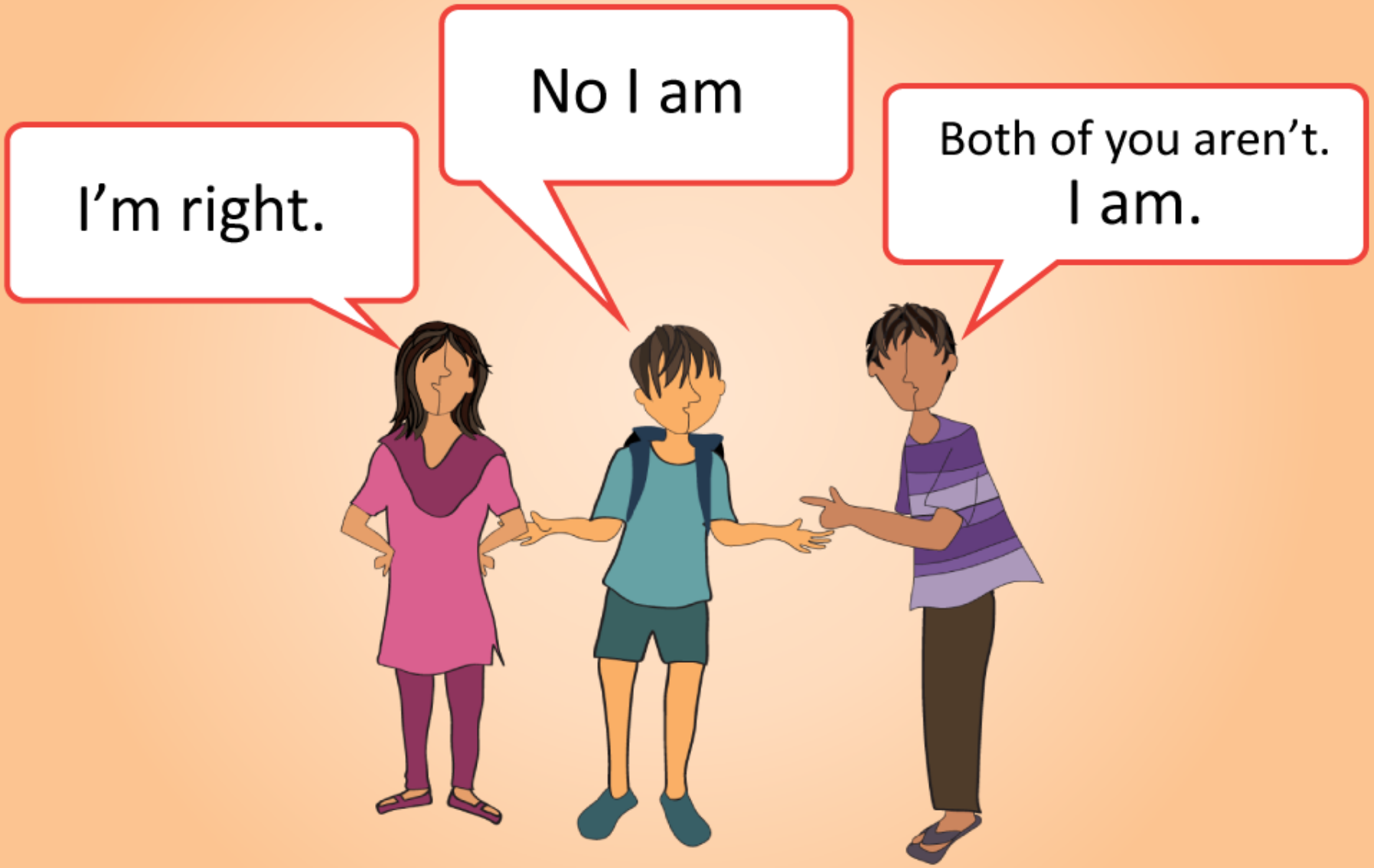
Clearly, this means a trapezium is just another name for a quadrilateral. So this is how it has to be.



These are three different perspectives!



The three of them start arguing...



???

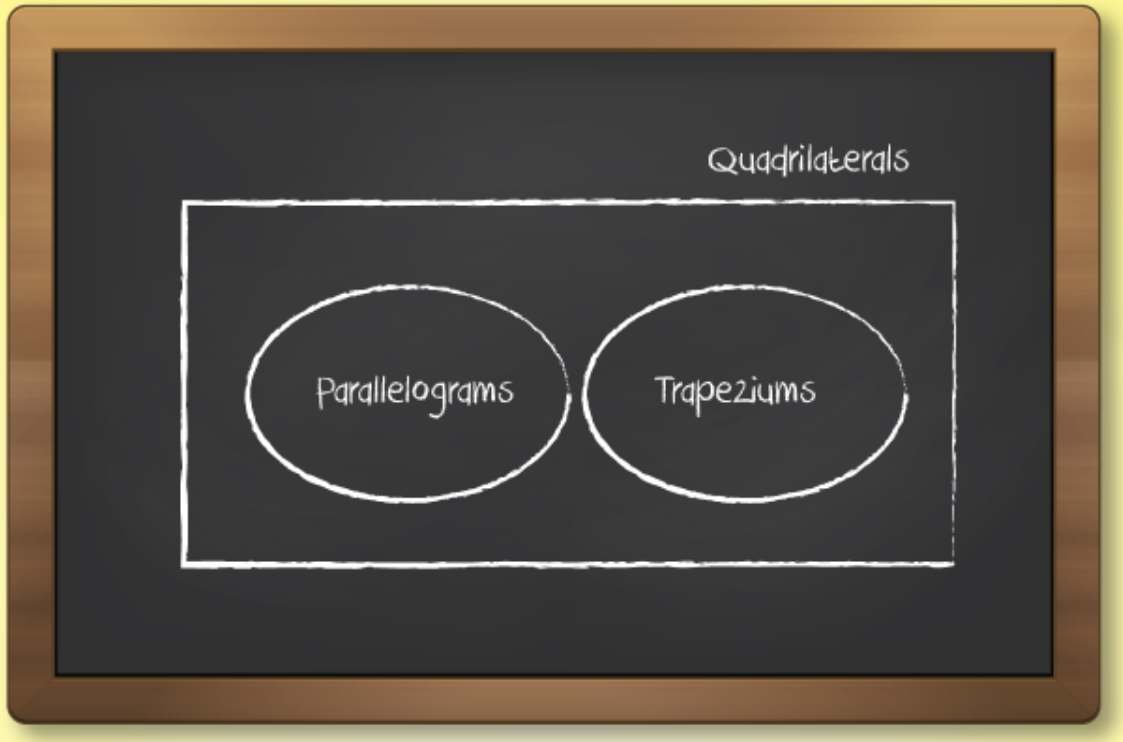
Do you think it's possible for more than one of them to be right? Can a term be defined in more ways than one?

Discuss.

How could the three friends resolve their differences?

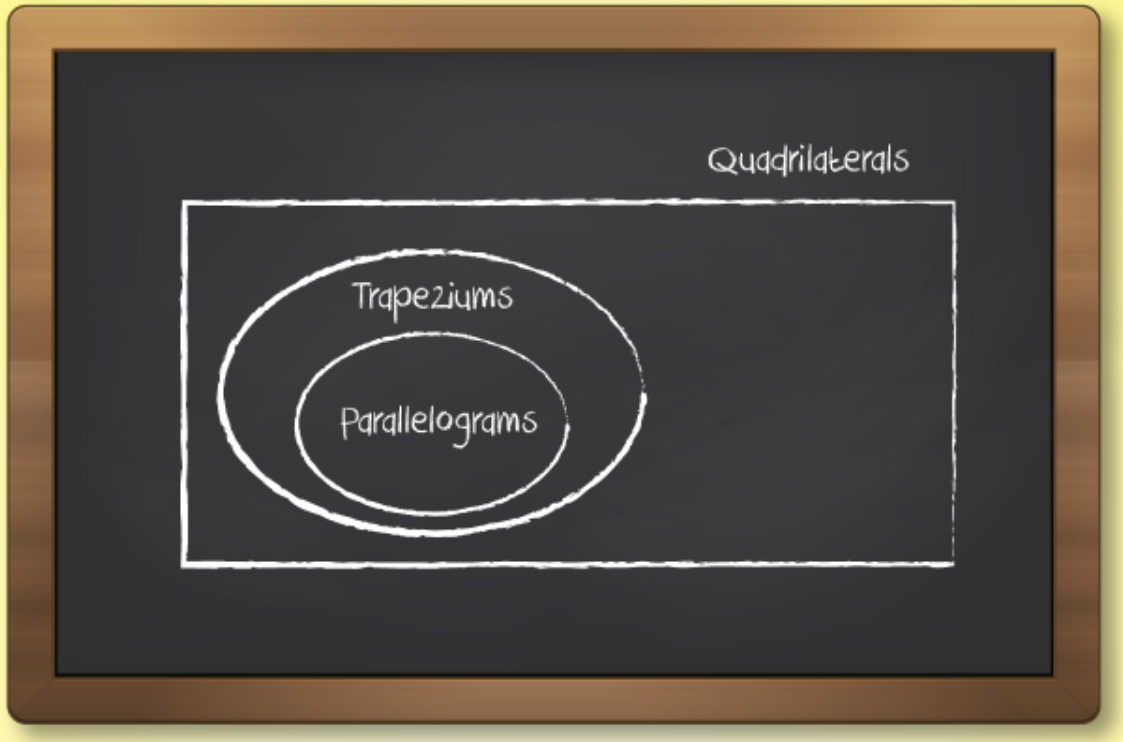
Give your suggestion on how the story could end.

Extension Tasks



According to Kanasu's definition of a trapezium, which of the following is TRUE:

A. all trapeziums are parallelograms
B. all parallelograms are trapeziums
C. some trapeziums are parallelograms
D. no trapezium is a parallelogram



According to Zo's definition of a trapezium, which of the following is TRUE:

A. all trapeziums are parallelograms
B. all parallelograms are trapeziums
C. some trapeziums are parallelograms
D. no trapezium is a parallelogram

Lesson: Discussing Definitions Unit 04 Lesson 10. India: CLIx, Tata Institute of Social Sciences.

Khanna, S., Rahaman, J., Srinivas, S., & Thirumalai, B. (Lesson Designers and Content Creators). (2016). Discussing Definitions Unit 04 Lesson 10. India: CLIx, Tata Institute of Social Sciences.

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Story script-Anand, J. & D'Souza, K., Character Conceptualisation- Bhandare, M., Illustration & Graphic Design- Agarwal, V.