

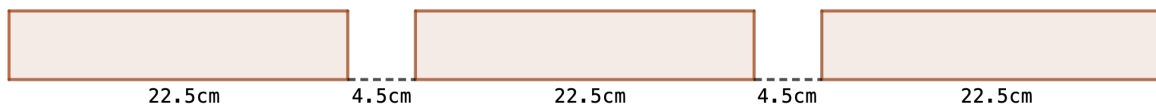


Problem of the Week

Problem B

Wall Construction

Moyo wants to build a wall in her backyard. She will build the wall out of bricks, and her measurements show that each brick is 22.5 cm long and 5.7 cm high. Moyo's bricks on the bottom layer of the wall are to be placed lengthwise and spaced 4.5 cm apart. For example, here is the bottom layer of a wall with three bricks.



- If she builds a wall with nine layers of bricks, what will the height of the wall be?
- If Moyo builds a wall with six bricks on the bottom layer, how long will this bottom layer be?
- If Moyo wanted the wall to be 130.5 cm long, how many bricks will Moyo use in the bottom layer of the wall?