Assume Buzz wants to descend a height of 3 meters.

How much rope would he need?

Requirements:

- Star Command safety regulations require knots spaced no more than 25 cm apart.
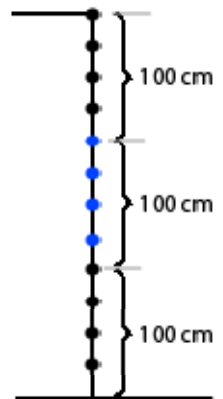
- He can choose white or yellow:

(Each knot would reduce the length by 5 cm.)   (Each knot would reduce the length by 10 cm.)

- Whichever rope he picks, he wants to use as little of it as possible.
- Assume there is a nail at the top of the ledge he can use to tie the rope.

100 cm

100 cm

100 cm

Work on this problem offline. Feel free to discuss with other classmates.
There is more than one way to solve this problem.
Be ready to share your solution (using either rope) on the next learning activity.
While *Buzz* can choose either rope, you should solve the problem for each color.