

Conical cap

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Eight-year-old Annie wants to go to a children's carnival in a white lady costume, which will include a white cone-shaped hat. The parents took the opportunity to practice their geometric imagination with Anna and decided to make the hat with her instead of buying it.

Exercise 1. Anna and her mother found out with a tape measure that the circumference of Anna's head is 52 cm. Together they further agreed that the hat would be 30 cm high. How will they create the hat?

Exercise 2. At the end of the carnival, there were competitions, and Annie won a bag of candies in the very first contest. She used a cone-shaped hat as a cone and poured the candies into it. The candies filled the cone up to half of its height. How many more bags of candies (of the same type) does she need to win to fill the cone to the top?