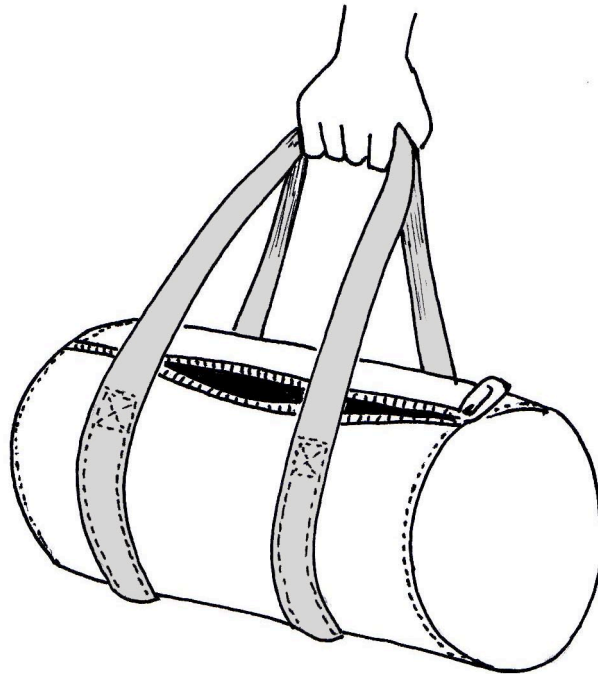


## SPORTS BAG



You have been asked to design a sports bag.

- The length of the bag will be 60 cm.
  - The bag will have circular ends of diameter 25 cm.
  - The main body of the bag will be made from 3 pieces of material; a piece for the curved body, and the two circular end pieces.
  - Each piece will need to have an extra 2 cm all around it for a seam, so that the pieces may be stitched together.
1. Make a sketch of the pieces you will need to cut out for the body of the bag. Your sketch does not have to be to scale. On your sketch, show all the measurements you will need.
  2. You are going to make one of these bags from a roll of cloth 1 metre wide. What is the shortest length that you need to cut from the roll for the bag? Describe, using words and sketches, how you arrive at your answer.