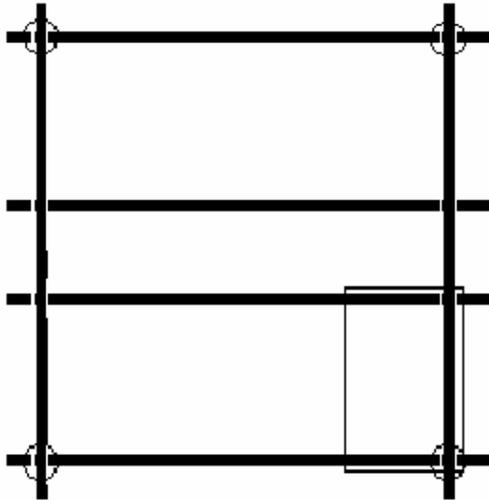


## How to build a raft

Materials: 4 barrels, 8 2m spars (white end), 20 6m ropes

Start lashing 4 spars together as a frame. Be sure all ends stick out about 10 centimetres.



Put two spars on the ground and place the frame over them (see picture).  
Now take a barrel for measurement and move the spars so, that they fall exactly into the rims of the barrel.

Now you have taken up the size, remove the barrel and lash the spars to the frame using square-lashings.

Once they are fastened, you can put the last two spars in place.

Now we're getting somewhere.

Take another barrel for measure and put the last two spars into position. Make sure the barrel tightly fits between the spars, the lower side just touching the lower spar.



Now remove the barrel and lash the last two spars to the frame (by then you have made 8 square-lashings). Now you're almost done.

Finally: place the barrels on your raft and secure them to the frame. Then turn it upside down and carry it to the water. If you have arrived, the frame is still in one piece and the barrels are still secured, everything went well and you are ready for rafting.

If not: you have to tighten your knots. By now you know what it has to look like.

Note: a barrel carries about 250 kg. Large barrels even more. So, sinking is virtually impossible. However, with a hole in your barrel or if one of the stops is missing, you're up the creek.....