

MY PARACHUTE

I am going to do a square parachute because I am going to cut four holes in each corner to attach the strings to, which I will then attach to my object- I didn't choose a circular parachute as in a square the corners are already there so I won't place the holes on the wrong place whereas in the circular parachute I wouldn't know where the corners are- as there are none and I may place them unequally causing my object to be slower on one side with more air resistance and faster on the other side with less air resistance. I am using a plastic bin bag as the link said it would be excellent and it is stretchy so it can create a dome shape like normal parachutes, I am using a hook to attach my objects to the string as I have my own parachute man, so I took the parachute off him and I am going to attach it to my own when I am finished. I chose an area of 400cm^2 as my parachute man's parachute was 21cm up so I made it easier for myself and did 20cm so $20 \times 20 = 400$, I chose my length of strings as 20cm as my man's length of string is 23cm so I made it easier for myself and did 20cm again.

Shape of parachute:	Square
Size of parachute (cm):	Area: 400cm ² Perimeter: 80cm
Material of parachute:	Plastic bin bag
Length of strings (cm):	20cm
How will we attach object?	With a hook

If I do it again I will make my parachute larger, it would be safer for the parachuter to have a bigger parachute because it will catch more air resistance and make it slower so it will break his fall more. My parachute man survived his fall.

I am currently creating a bigger parachute and observing the differences of the first parachute compared to the second parachute. The times for the first parachute were, 1.47,

1.43 and 2.11 although in the second one the times were, 1.8, 1.57 and 1.6. The second one was way better (like a new and improved shop) and was 900cm² (30x30) and was amazing I loved doing this experiment and I know I'm going to keep my parachute on the figure and not put the real one on it. The second one worked better as it caught more air resistance as it was larger.