

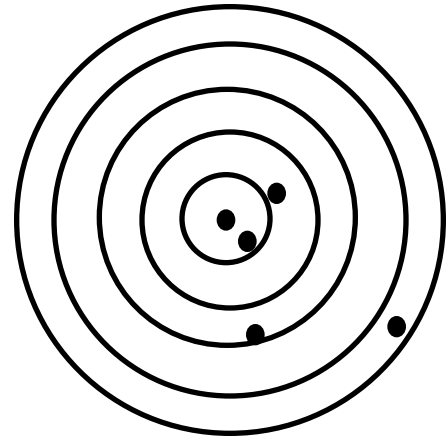
CO2 CARS

Name _____

Date ____/____/____

LIMITATIONS and TOLERANCES

Limitations in the design process let you know what you can and can not do. The better you understand your limitations; the better you will be able to make your dragster.



ON TARGET

Think of limitations as a target. On a target the circles get smaller and smaller until you reach the smallest circle of all, the bull's eye. Without these circles it would be impossible to shoot and hit the center. They provide limits that tell you whether you are close or far away from the center.

KNOW THE LIMITATIONS

Your dragster must be made within limitations and specifications, To produce it properly you must learn what these requirements are before beginning the design process.

FACTORS	LIMITS	
	MAX.	MIN
Draster body length	12	8-1/4
Draster body width	1-5/8	1-1/2
Power plant length	2	2
Power Plant diameter	3/4	25/32
Power plant housing thickness	--	3/16
Screw eyes C/L (apart)	10-3/4	6-1/4
Axles hole above body bottom	3/8	1/4

TOLERANCE

A real car has over 4000 working parts. Each part was designed and built to perform a certain function. To work properly each piece must be built to a certain tolerance. This means that each piece has a maximun size it can be and a minumin size it can be. These limits are checked with a **go-no-go** gage. You will have limits in building your car. Make sure that you are within these tolerances.

