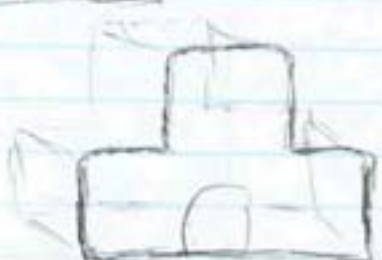
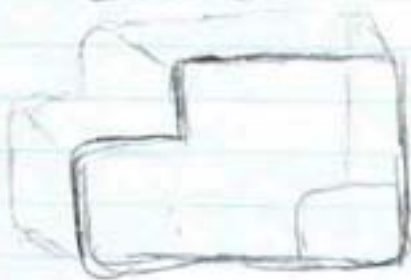
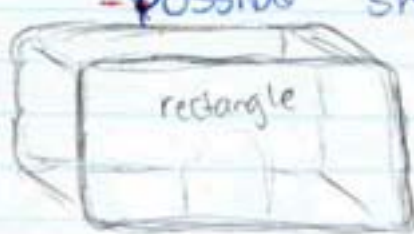


## Evidence of Creativity

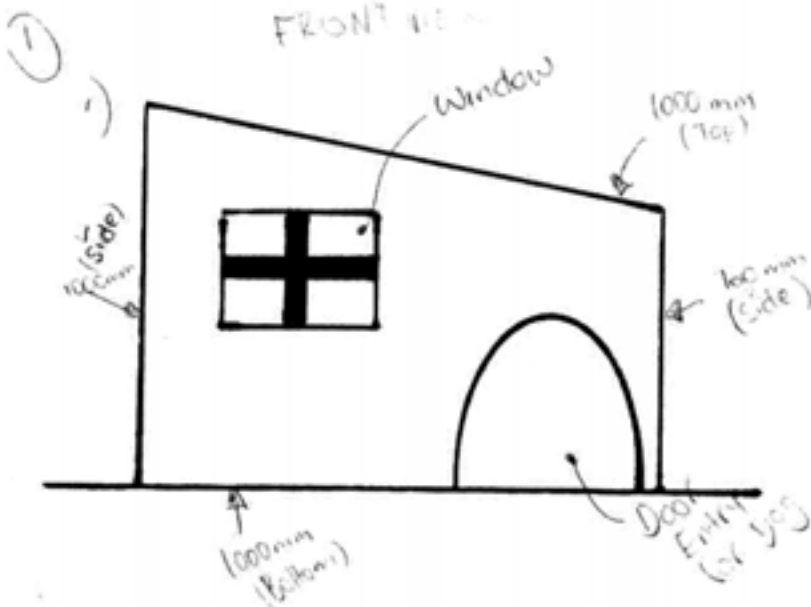
- Generation of ideas:
  - Possible shapes.



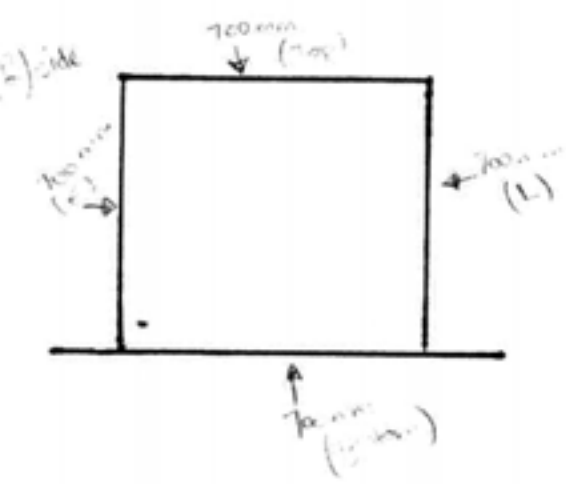
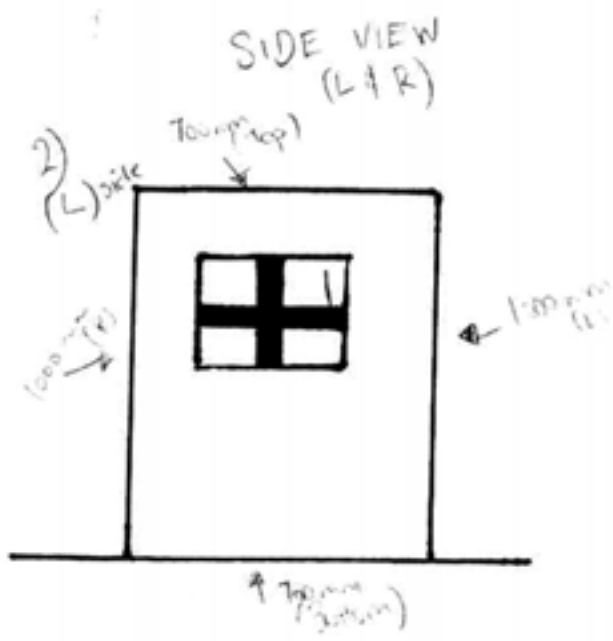
- (1) (Rectangle): This shape of rectangle is a good shape for a dog its wide and lots of space for a dog. Comparing it the ideas kennels number one

# IDEA SKETCH

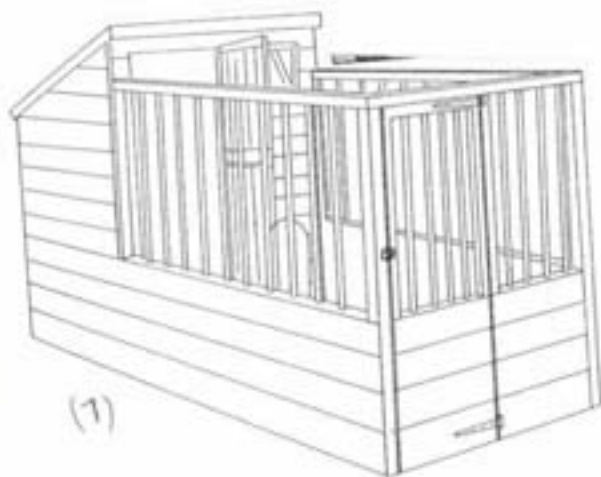
(DOGHOUSE)



②



# IDEAS






\* This here are some examples of dogs kennels but different shapes like the usual square or rectangle.

\* I have came up with an idea of a cylinder shape because that something what I call like the old days dog kennels.

\* This is different from any other dog kennels.

(Cylinder shape)

Metal  - comfortable for dog  
 - make bottom flat  Put platform in.  
 Panel beat flat.

```

graph LR
    A[Insulate it] --> B[venture effect.]
    B --> C[air condition]
    C --> D[needs electricity.]
    C --> E[expensive to buy.]
  
```

\* covering on entrance  $\longrightarrow$  not solid so dog runs through  
 $\longrightarrow$  slot, push through like vertical dog door  
 -like a tent.

\* blanket → on floor - not possible  
                   → on outside - ok on platform  
                   → on outside - easy to wrap around

Moving it around the garden

- \* rolling - difficult because of outside insulator.
- \* handles - 2 people tp move it (heavy)
- \* wheels - 1 person can push

- Stability
  - stands
  - legs > can't push it
  - wheels – braking mechanic
  - skis on it – no brake needed

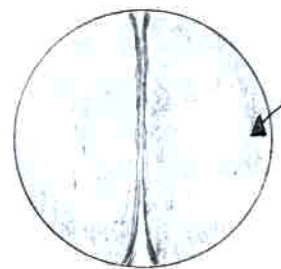




# \* Drums \*

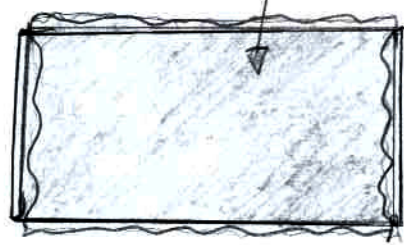
## Shape Cylinder (metal)

Front



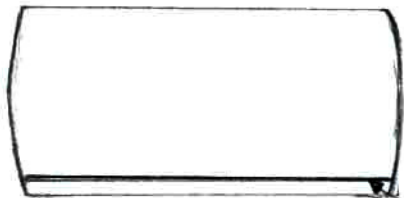
\* Fabric placed like a vertical dog door - like a tent.

Side



\* A blanket covering the drum.  
 \* For the heat.  
 \* Making it cooler inside for the dog.

SIDE

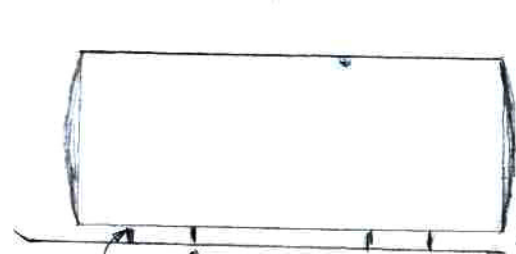


\* placing a platform  
 \* to make dog more comfortable.  
 \* panel self flat.

Front



\* platform.  
 \* placing a blanket on the platform.  
 \* Making the dog more comfortable to sleep or laying down.



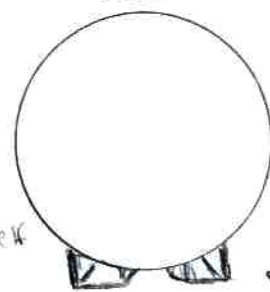
\* Screwing the skis at the bottom  
 \* Connect the metal parts to the skis.  
 \* Making holes and screw them on

\* Skis for moving the kennel.  
 \* Easier to move around.  
 \* Pushing the kennel around.

Entrance of dog

\* Cutting a bit of the front bit  
 \* For the dog to enter and not injury himself

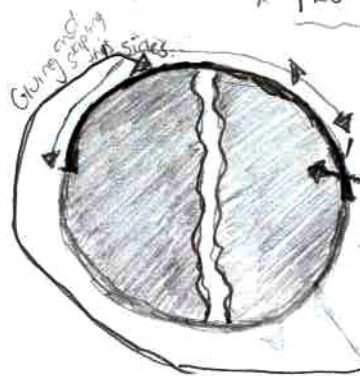
Front



\* Skis  
 \* Looking from the front.  
 \* For moving the doghouse around



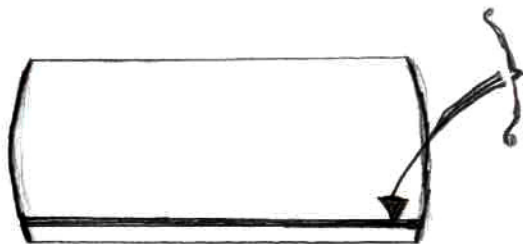
## \* FRONT OF THE DRUM \*



- \* Cutting out the front plastic of the drum and making a hole.
- \* Getting some kind of fabric to place at the front to look like a tent door.
- \* Glue the fabric around the round front part to the middle part.
- \* After Gluing the fabric around staple the fabric so it doesn't come off. (Highlighted part)
- \* Leaving the other <sup>part</sup> so the dog can enter and exit easier. (not Highlighted part)

## \* KENNEL HOUSE MADE OF A DRUM \*

### \* THE INSIDE OF THE DRUM \*



- \* Placing a Platform inside.
- \* The Platform will be wood.
- \* It will be placed inside by measuring the inside and the wood.
- \* Cutting the sides and corners to make it sit inside the kennel.

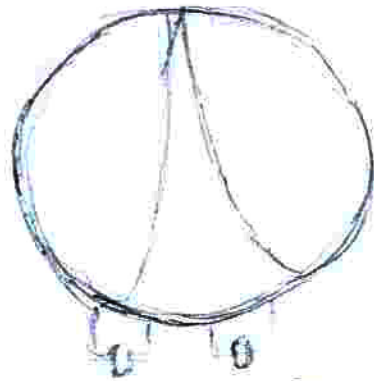
### \* (OTHER WAYS OF MAKING A PLATFORM/FLOOR) \* IDEAS \*

- Putting a blanket on the floor.
- Putting a wood that's thick and the right size to fit in.
- Acrylic and placing a blanket on top of the acrylic.
- Easy to clean the floor of an acrylic.
- Placing springs everywhere and on top of the springs place a little mattress.
- A mattress more comfortable for the dog.

# Cylinder kennel house

FRONT

SIDE



\* wheels are place  
to the front



\* wheels even placed  
in the rear.

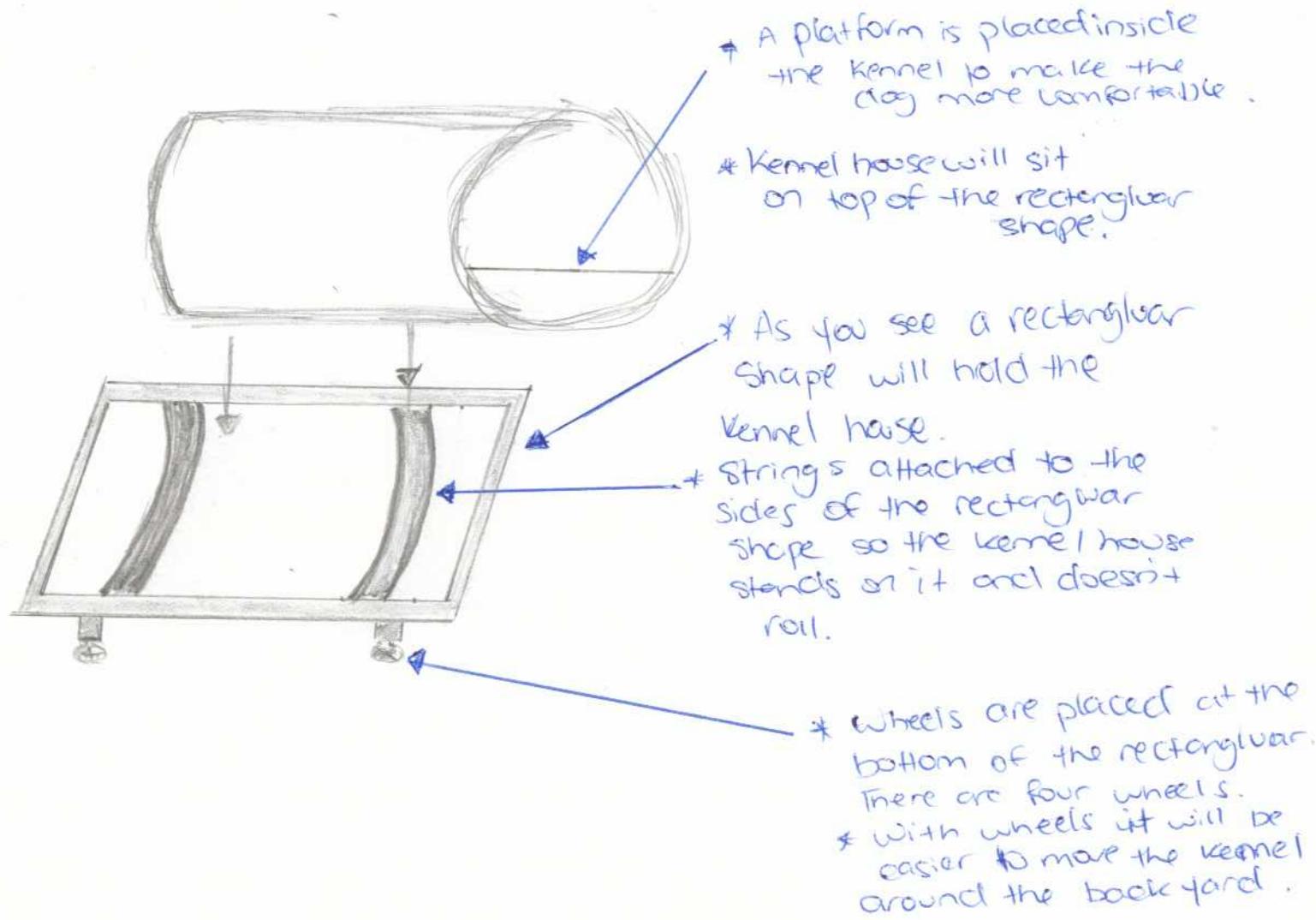
\* wheels will be placed  
front and rear so  
the dogs is held up  
straight.

\* It will be easier to  
move around.

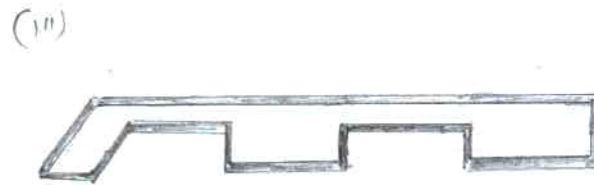


# Kennel house

(Cylinder Shape)



# Different Drawing Sketches (STANDS)

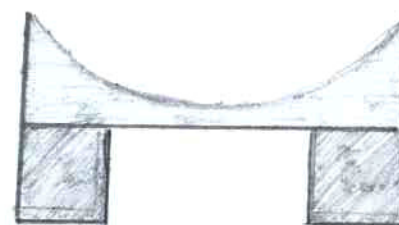


\* These are seven different kind of stands to hold the kennel.

\* I have chosen one stand for the kennel that I will make.



(FRONT)



\* This will hold the kennel by placing the dog kennel on top of the stand. There are two one in the front and one in the back.



## Ears

- Dogs with droop ears are the long-haired breeds, require that special attention be paid to the ears.
- The ears must be cleaned regularly with a cotton-wool pad.
- Dogs which play with water need care to unpleasant ear infections and are cause by water going in the ear canal.

## Nails

- The dog's nails do not require any care if the dog has enough exercise out of doors.
- The dog's nails can be shortened by trimming the nails with special nail clippers.
- Taking care when trimming and cutting off only the tip so that it doesn't damage the nerve.
- You can take your dog to a <sup>special dog</sup> beauty parlour or by a vet to trim, cut, and clipped.

## Teeth

- Sometimes a brownish encrustation, called tartar forms on the teeth.
- This can be removed by supplying the right food to the dog eg. a bone, hard biscuits;
- Another way is a <sup>soft</sup> toothbrush from the vet shop and do not use a ordinary toothpaste.

## Eyes

- ~~A~~ A healthy dogs eye don't require any special care.
- If theres any suspicion of an infection, take the dog to the vet.



## CARE OF THE DOG

- Dogs of most breeds are fully grown in height around one year of age.
- As a guideline a dog weighing 10kg should be given 650g of food daily.
- One weighing 20kg about 1kg of food daily.
- One weighing 50kg about 2kg of food daily.
- Do make sure that the meat or offal you feed to your dog is not too fatty and has been produced under hygienic conditions.
- Be careful about feeding milk to an adult dog.
- Make sure that a bowl of fresh water is always available, and always when feeding dried roots or biscuits.
- Avoid giving your dog any small bones, like poultry bones or chop.

## Accommodation

- The dog must have its bed in a fixed place where it knows it can rest and sleep.
- Large breeds which cannot be kept indoors, are best housed in an enclosure in a yard or garden.
- The enclosure should be fenced and roomy.
- It must contain a kennel that will give shelter to the dog in bad weather.
- The best type of roof is one that can be removed or raised, ~~or fixed~~.
- The inside space should be suitable for the size of the dog and allow it to lie down in comfort.
-

## Experiment Table

Materials Testing	Tools Used
<ul style="list-style-type: none"> <li>• I will be testing the metal jar by cutting out a piece of wood, making it the shape of a rectangle to make a platform.</li> <li>• Fitting the platform inside the cylinder shape jar.</li> <li>• Find a way to fit the platform in the jar.</li> <li>• Make skis for the for the to make it stand and not move because it a cylinder shape.</li> <li>• Two half a sphere are to hold the platform.</li> <li>• Nail the sphere to make the sphere stand on its place.</li> </ul>	<ul style="list-style-type: none"> <li>• Wood saw</li> <li>• Rule</li> <li>• Scriber</li> <li>• Sandpaper</li> <li>• Bench</li> <li>• Cork blocks</li> <li>• Tinsinp</li> <li>• Hammer</li> <li>• Coping saw</li> <li>• Nail puncher</li> <li>• G clamp</li> <li>• Disc sander</li> </ul>



## Evaluation (Experiment)

Experiment Objects	How <del>used</del> <sup>used</sup> my <del>to</del> <sup>to</sup> experiment	What my results are	How could I use it for my MDP.
- Metal Jar	I used it to make a little model of the dog kennel.	My results came up good same as what I drew up.	It will help me <del>to</del> make my Major Project easier.
- Fabric	I used it to put it over the metal jar and inside for the platform to warm up the kennel for cold weathers.	The result came up perfect as well putting fabric on the platform to keep the dog comfortable.	The fabric will be well used for the major project because any other kennels use only wood.
- wood	The wood is used to make the platform so the dog can lay down in a flat floor instead of a round one.	Results for the wood was easy to put inside placing <del>to</del> two half a circle to hold the platform.	The wood I can use for my MDP that to make the platform.
- Cardboard	I used card to make it look like wood but I really won't use cardboard for the real one.	The results were perfect what I planned and that it looked the same but wood instead will hold the <sup>cylinder</sup> kennel.	I could use it for a cylinder shape to hold it from rolling around.

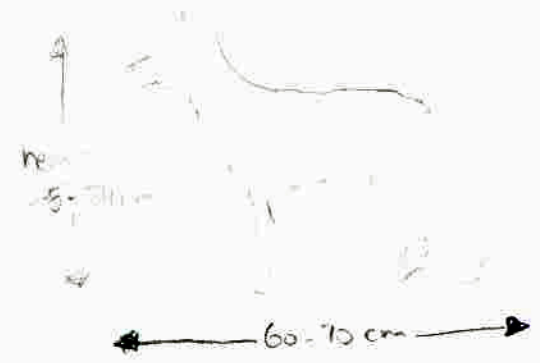
Puppies (3 months old)

weight : 0.9 - 2.7 kg



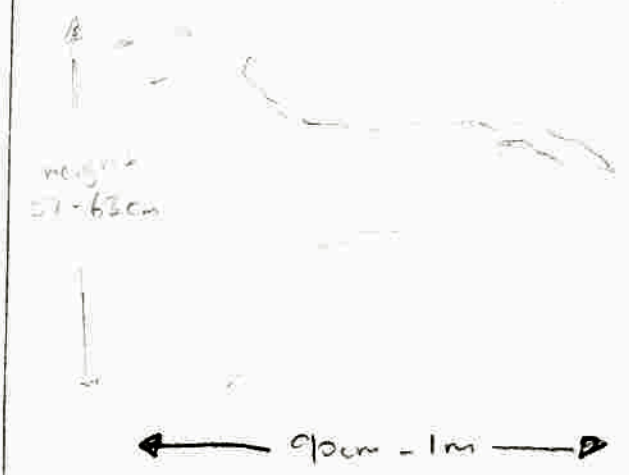
(6-7 months old)

weight : 12 - 15 kg



(1 year +)

weight : 30 kg - 45 kg

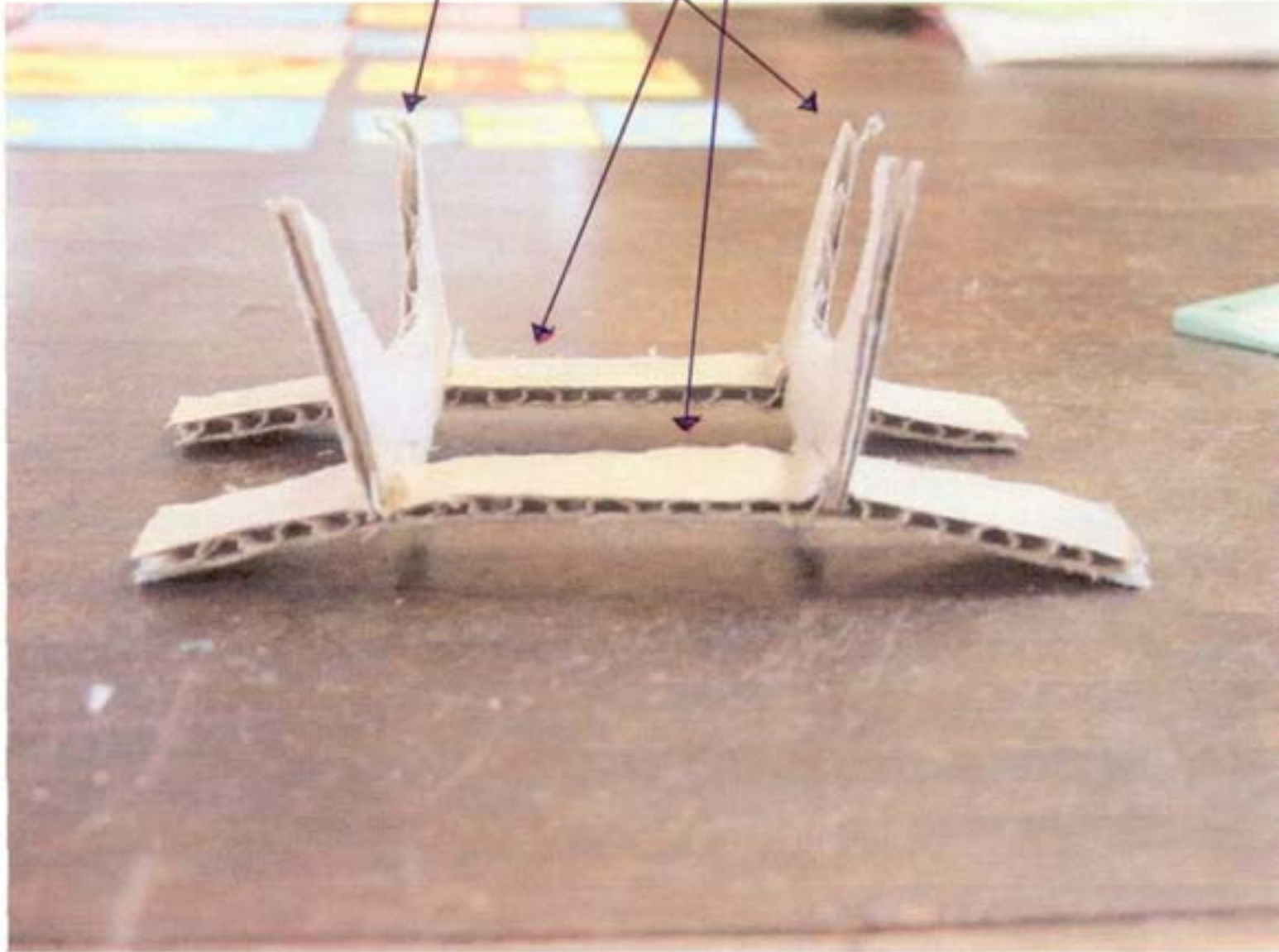


**DOG SIZES**

\*Measurements of dogs for the doghouse.

→ Here you see the stand to hold the kernel house  
so it does not roll around. There are two shapes  
that look like a bridge and holding those two bridge  
shapes are two sticks.

→ This stand is made out  
of cardboard.

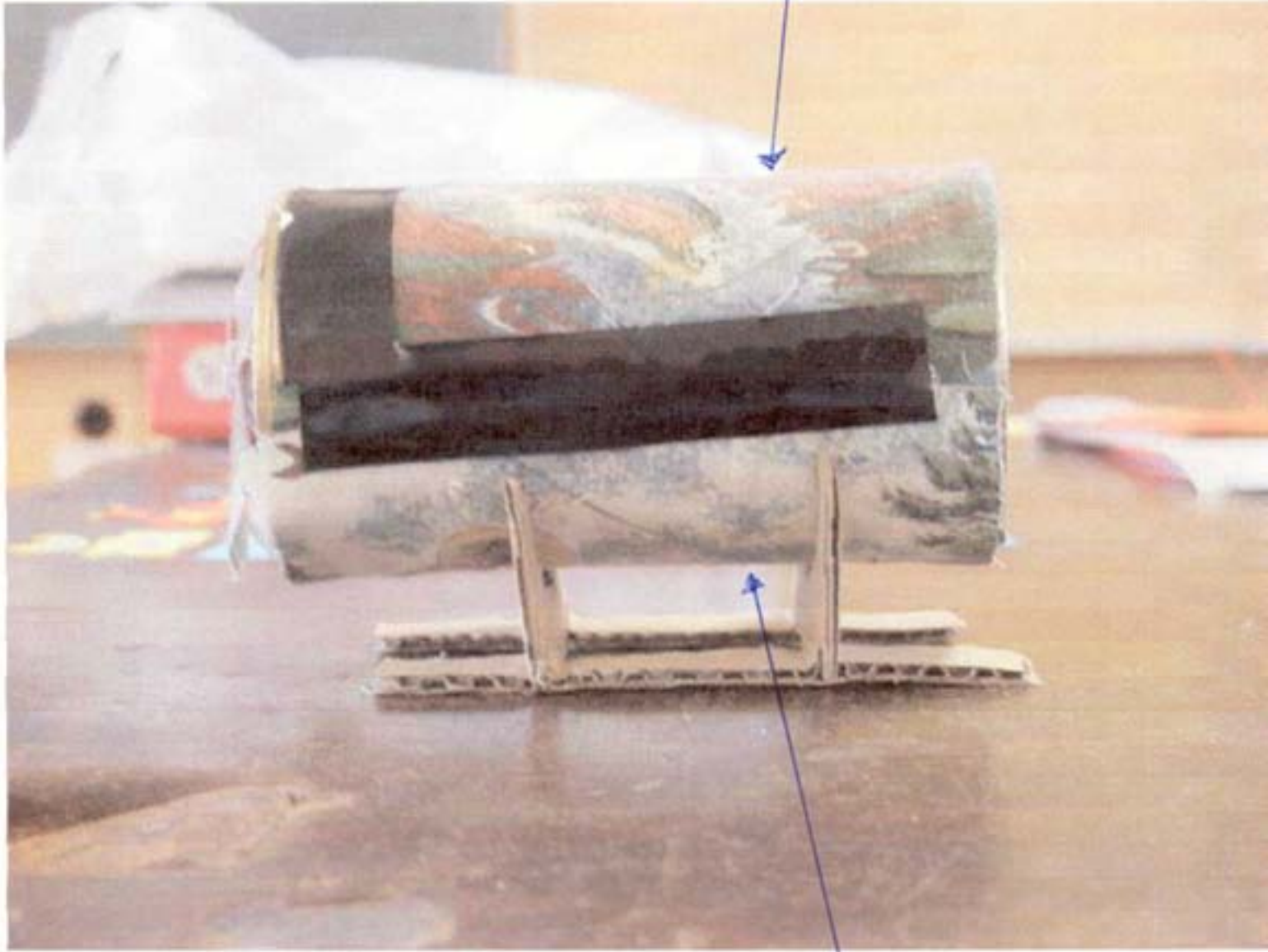






7 This idea is a new creation that I wanted to create. It is different from any other dog kennel house a cylinder shape. Most kennel shapes are squared or rectangular.

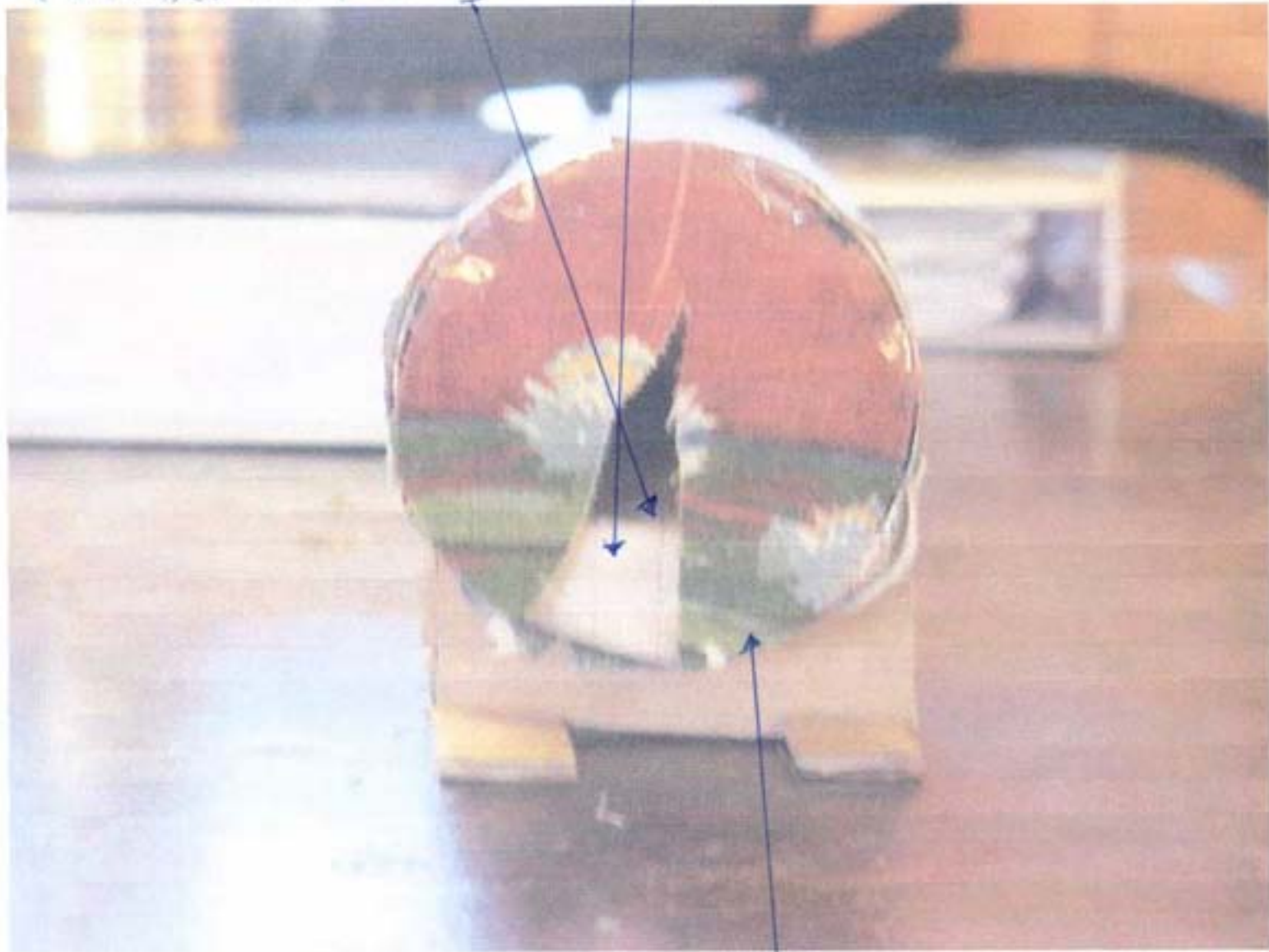
\* The baked bean can is covered with a fabric to warm up the inside.



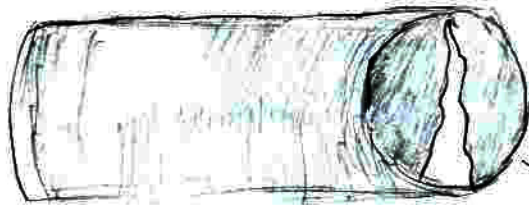
\* This is the side of the dog kennel.  
This was an experiment done with a baked beans can.



\* The inside is a platform and fabric placed on top of the platform.



\* The front is placed with a fabric that looks like a tent door.



- \* Fabric will be placed at the entry of the door. It will look like the Entry of a tent.
- \* It's easier for the dog to go in and out.



- \* Fabric will be placed around the dog house to make it warmer inside.



- \* Fabric will even be placed inside on top of the platform.

\* radiata pine (wood)

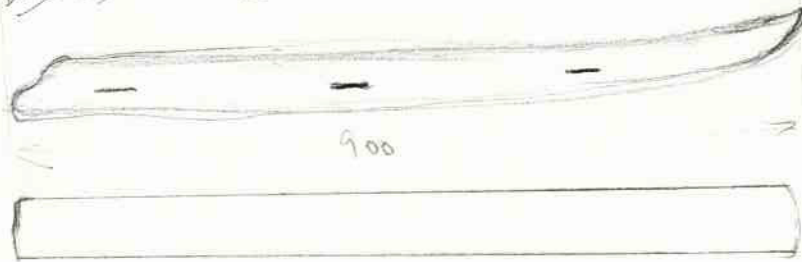
\* measure the diam multiply by 2

add a meter

Rame Yousif

Different  
Kind of skies

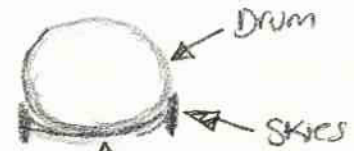
SIDE VIEW



Skies

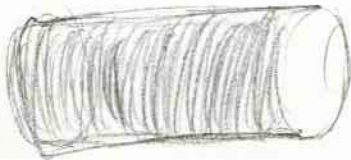


nails, nailed thru the bent wood and thru the drum, holding the drum

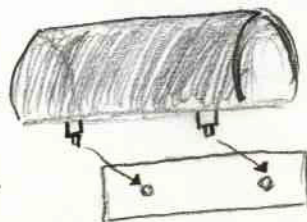


bent wood holding the drum

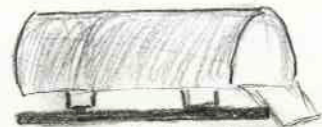
①



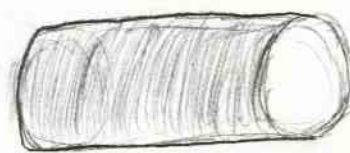
- Cut the cylinder in half.
- Easier to install the skies



• Make one piece of wood with two holes in two side as shown on the Right.

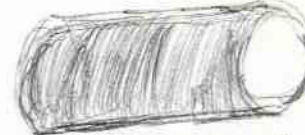
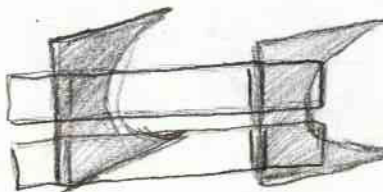


• When installing the big piece of wood the the two little ones installed to the cylinder this how it will look like.



\* This is the cylinder that will turn out to be a dog kennel at the end.

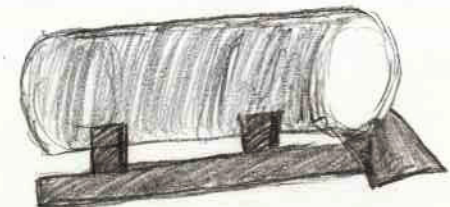
\* This is the stand that will hold the cylinder.



\* Here is the cylinder with the skies that will sit on



\* At the end this how the kennel will look.

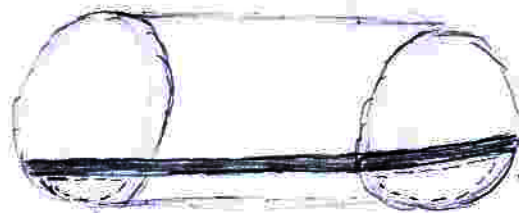


# How will I make the platform?



As you see the rails that I will be using. So are held the circle in place.

The front will look like this  
A piece of wood that look like half a wood holding the flat part.



Even in the back one will be place so the front & back will hold the flat wood.

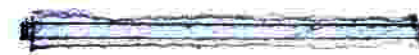
The front will have a piece of wood that you can see that holds the flat wood.



This are the rails



The half of a circle will look like this behind the flat wood on top.

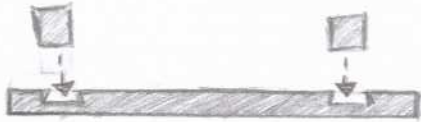


I will be placing fabric around and on top of the clay kernel. This will be used to place the water.



On top of that fabric I will place a blanket and a pillow so the dog will be more comfortable.

How will I make the shoes?



\* I will be cutting two housing square of the wood so it will hold the two piece of wood.



\* This is how it will look like the two pieces of wood and the big one that looks like half a square will hold the cylinder kernel.



## Two Sleds

\* This is the sleds  
that look similar to mine.



To survive a breakneck dash down a snowy slope, a sled's structure must be robust but relatively light, criteria met by both designs pictured here. Jonathan Shafer's Austrian sled, top, has laminated runners buttressed by steel underpinnings. John Sollinger's simpler hardwood clipper, below, was inspired by traditional 19th-century New England designs.

### Shiny paint dresses up Vermont clipper

by John Sollinger

I'd been employed as a full-time woodworker for most of my life and the work had always been satisfying. But ever since my wooden-model building days in grade school, I had always wanted my own shop. Yet I never knew quite what direction my design and building efforts should take. One day about six years ago, my wife suggested I stop talking about it and actually do it. She even had the product: wooden sleds.

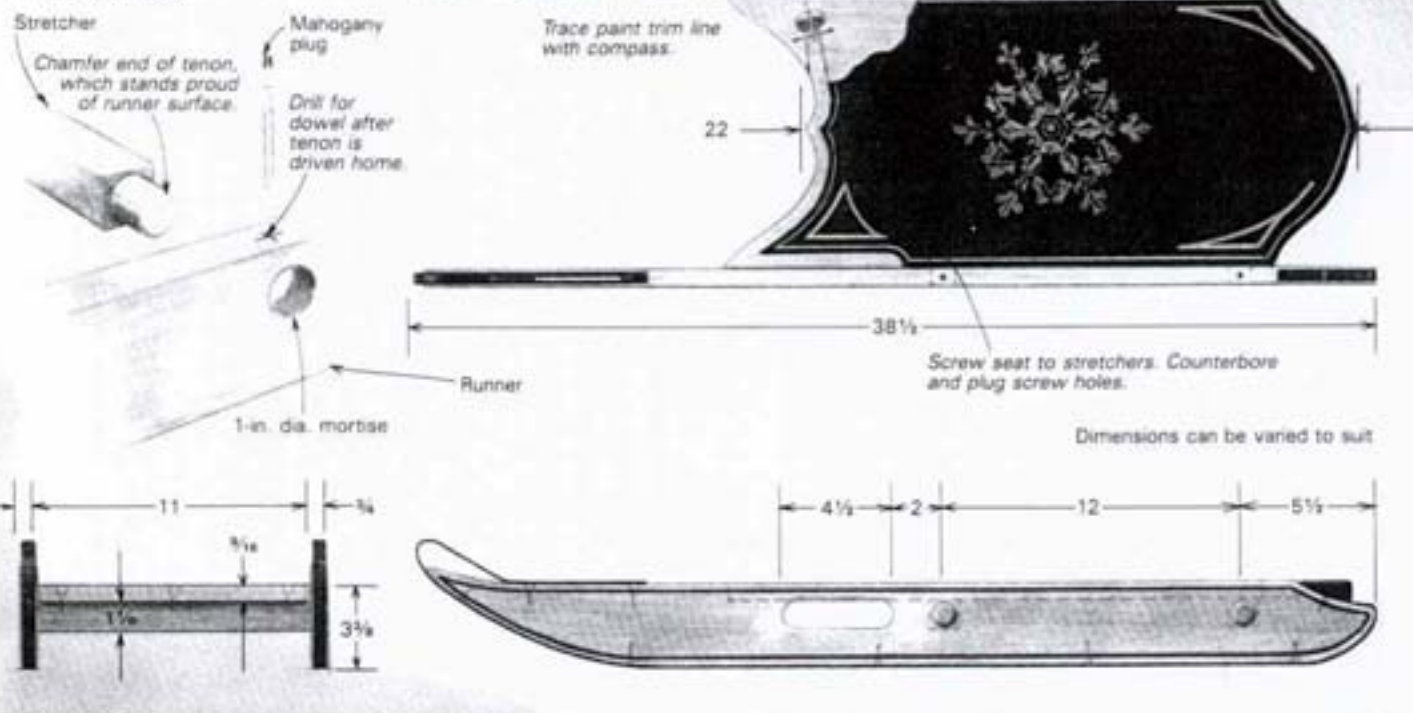
Because I live in snowy Vermont, sleds have always been objects of wonder and beauty to me, natural enough. I suppose, from an object that earns its keep toting firewood and groceries yet can still carry passengers on a heart stopping joyride down a steep slope. The design inspiration for the sled shown here came from a couple of magazine articles describing styles of sleds produced in this country during the past century and a half. Substance was added to the style when a neighbor took me on a private tour of the nearby Shelburne Museum's collection of antique sleds and sleighs. The photographs, dimensions, and notes on construction details taken from the sleds at the museum led us to choose the hardwood clipper as our first sled project.

I began three sizes of clippers and finished the smallest in time for my daughter's first Christmas in 1980. An enthusiastic reception encouraged us to establish the Vermont Sled Co. We

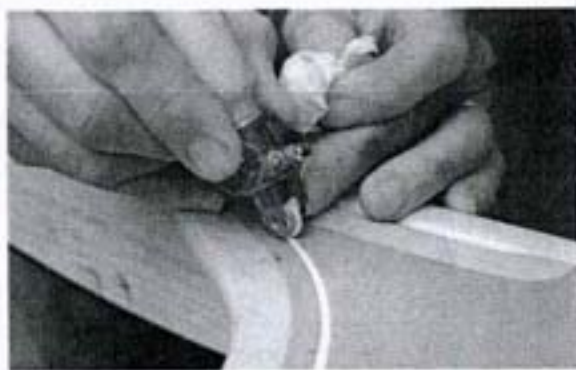
later added a rocking Holstein cow and some smaller items, but the sleds remain my favorite product. The clipper is handsome, simple and extremely rugged, all of which make it ideal for small-shop production. It's composed of five pieces of wood—a frame consisting of two stretchers tenoned into two runners and a seat or platform whose chief function is to keep the sledder from falling through to the snow, but which also strengthens the frame. The sled's real strength lies in the pinned tenons that join the stretchers to the runners. It's an attractive detail and capable of surviving the constant pounding sleds must endure. Since the runners are fixed, you steer by dragging a heel or toe (depending on riding position) on the side you want to turn toward.

The drawing on the facing page shows construction details. Dimensions can be scaled up or down for any desired size or function. Our sleds range from 32 in. long by 10½ in. wide to 45 in. long by 13 in. wide. Our largest sled, the Long Rider, has a slatted seat and the runners are pierced for lightness and looks. We use ash for the runners, sugar maple for the stretchers, white pine for the seat and hardwood dowels capped by mahogany plugs for pinning the tenons. The runners are shod with mild steel bar stock, available at hardware stores. The sleds are finished with a clear satin-finish polysurethane and

# Hardwood clipper



An extra runner, left, serves as a bending form for the sled's steel shoes. Bent cold, the steel is coaxed with a hammer where overbends are required. To paint the seat, Sollinger masks with tape to layout lines struck with a compass. Once the enamel has dried, he paints pinstripes with a striping wheel guided by hand or, where practical, a straightedge.



over that I spray a high gloss exterior enamel for color.

Select a board for the runners wide enough to lay out both, top to top—that way color and figure will match. For obvious structural reasons, avoid checks or knots. We hand-saw the runners out of 4/4 stock before thickness planing and we use a pattern to guide final profiling on the shaper and overhead router. All sanding, except final touch-up, is done at this time using a pneumatic sander. Round mortises for the stretcher tenons are drilled after sanding, to keep the edge of the hole from rounding over, ensuring a crisp joint. We cut the stretcher tenons with a chucking tenoner that produces a 1-in.-dia. tenon with a square shoulder, however, you could just as easily turn the tenon on a lathe. Tenon length should be 1/4 in. longer than the thickness of the runner so it will stand proud of the runner's surface. Before assembly, we chamfer the end of the tenon on a disc sander to produce a nice decorative touch.

Pine for the seats is glued up then planed to 3/4 in. before being hand-sawn to shape. We glue and screw these seats cross grain to the maple stretchers which is, strictly speaking, not good construction practice. However, we have had no problem with cracking because we avoid checked or figured wood and glue up only when the humidity is in the 40% to 60% range.

That way the seat will neither shrink nor swell enough to cause problems. If you are concerned about the seat cracking, you could skip the glue and fasten it with screws through slotted holes, but the sled will not be as strong. You could also make a slatted seat instead of a solid one.

Once the sled is assembled and sanded with 220-grit paper, you can finish as desired. We apply a coat of satin polyurethane (made by Zip-Guard), let it dry, sand with 220-grit, then spray a final coat. If you don't have a spray rig, brushing will give acceptable results. We use satin polyurethane because it's easy to apply and the enamel for the seat adheres well to it. For the seat's glossy finish, we use an oil-based enamel called Lustaquick made by Kyanize in Everett, Mass. 02149. Local paint stores can order this material and it is worth the wait. The paint has a high solids content and whether sprayed or brushed, it produces a beautiful, durable finish in one coat.

We mask the sled, spray the main color area and, when it has dried, paint the pin stripes with a striping wheel (from Brookstone Co., 127 Vose Farm Rd., Peterborough, N.H. 03458, catalog number 2812, \$11.75 in 1985, or from auto-body supply stores). Practice with the wheel before tackling the sled. Good results can also be had with an appropriate-sized sword-striper brush, thinned paint



Model

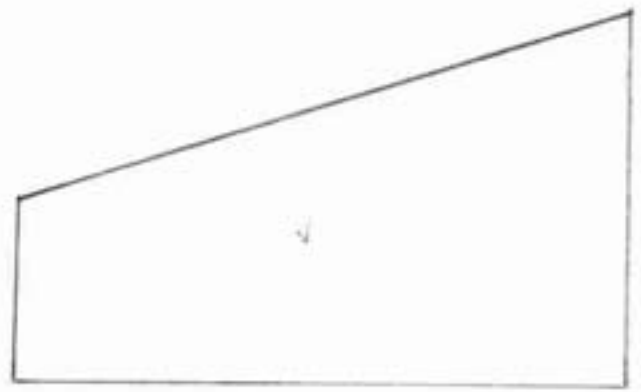
MODEL N# 2



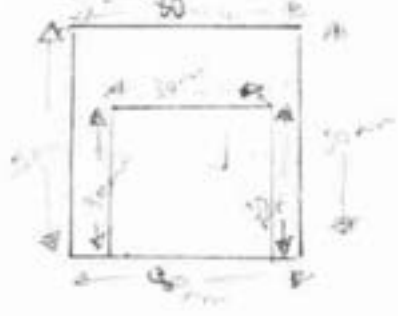
← Same measurement  
by 1 mm

SIDE

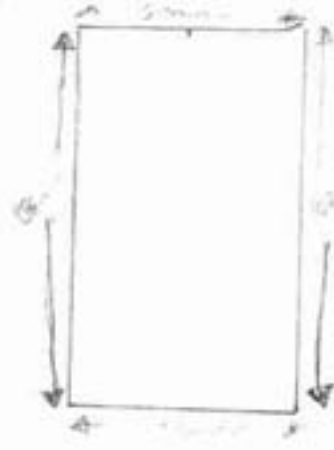
Bottom View



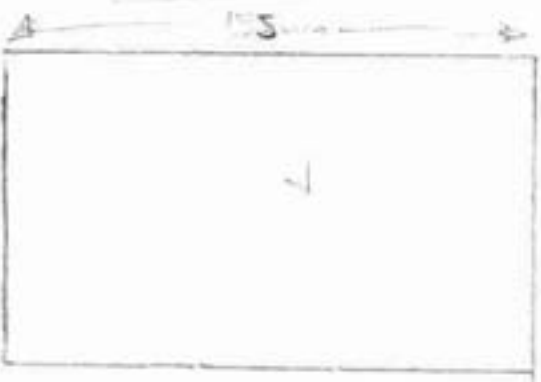
FRONT



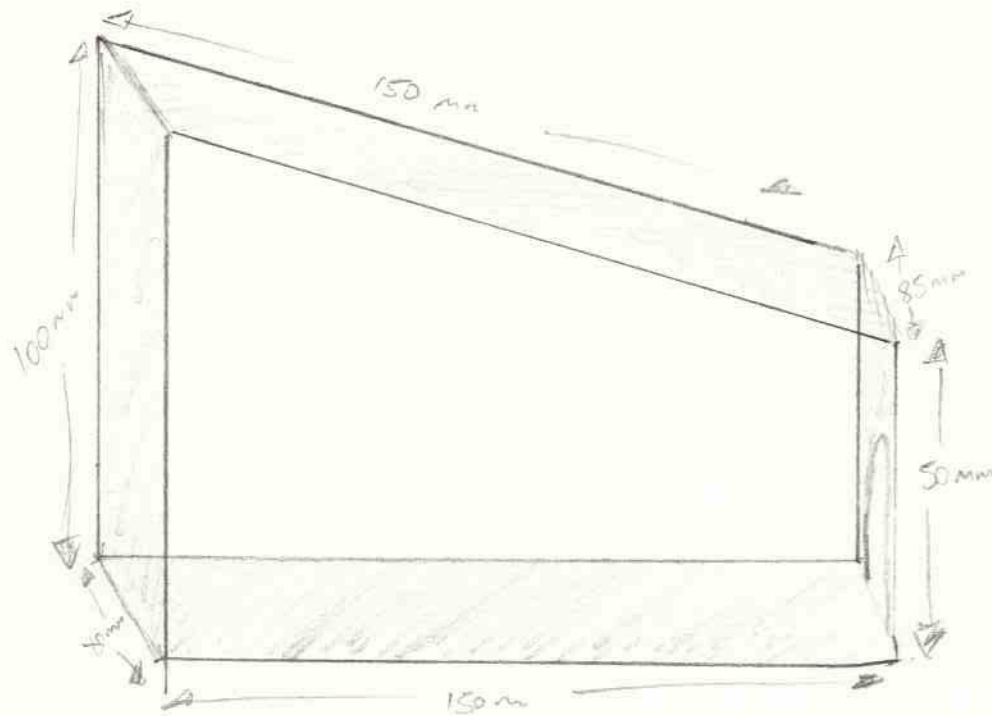
BACK VIEW



Top View



## MODEL



## EVALUATION

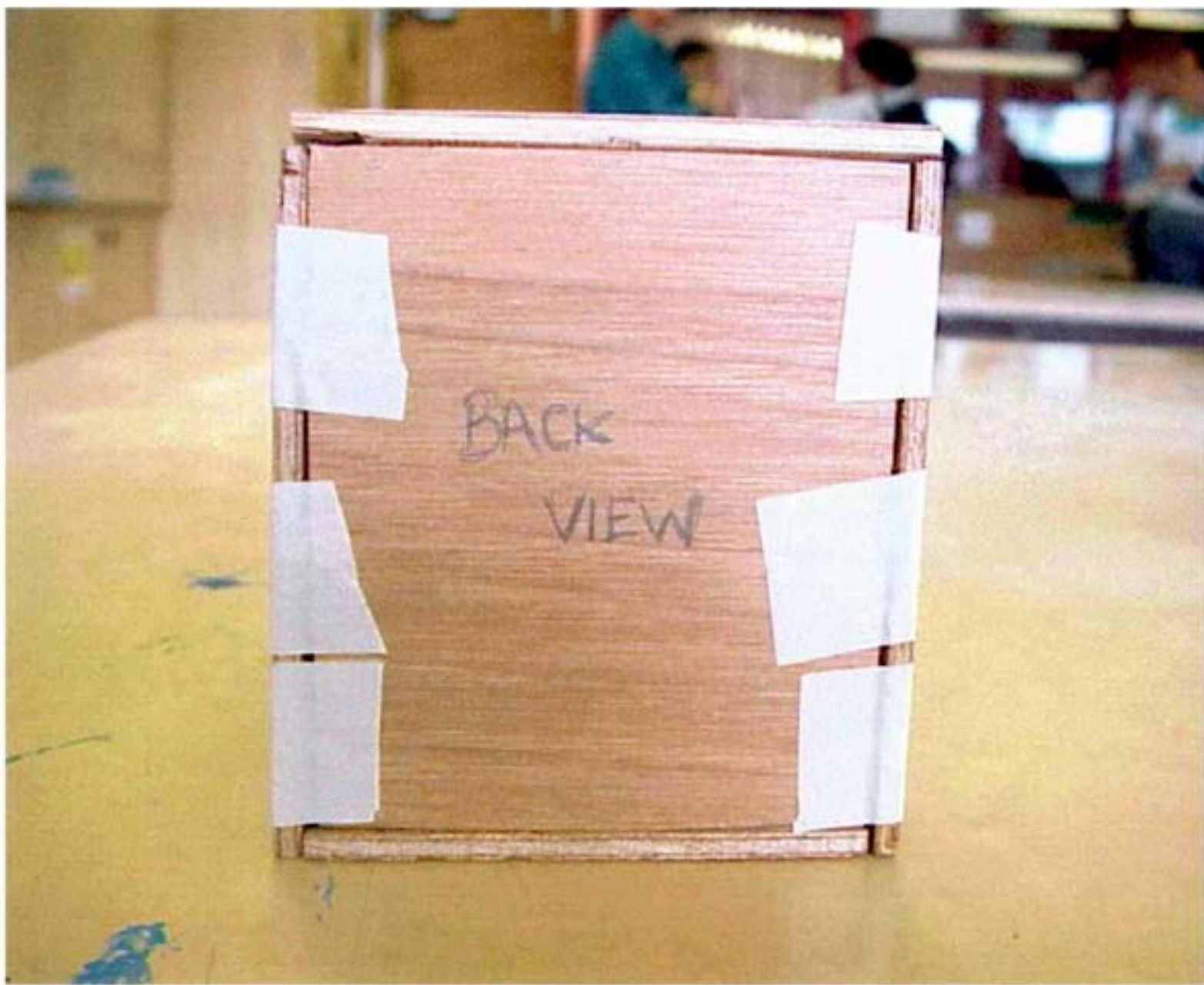
- This model of the dog kennel is made of wood.
- \* It took me two periods to draw and design it.
- \* I got 6 pieces of wood and glued them together to look like this.
- \* What I like about it is
  - the shape and it got lots of room for the ~~kennel~~ dog.
- \* What I don't like about it is
  - it will be hard to move around.
  - hard to clean the inside.
  - pieces of wood that are coming off will cut and hurt the dog.
  - Termites can surround the kennel and the wood (not possible).
- \* What <sup>more</sup> could I have done to it?
  - I could of made the top come off so it would be easier to clean the inside.
  - Painted it.
  - Put fabric around it to make it warmer.
  - Put fabric inside like a blanket for the dog to be more comfortable.

MODEL 11<sup>th</sup>




- \* This is the 2nd model that I have experimented and designed.
- \* This is the front view of the dog kennel; it looks like a square and the door looks like a square too.





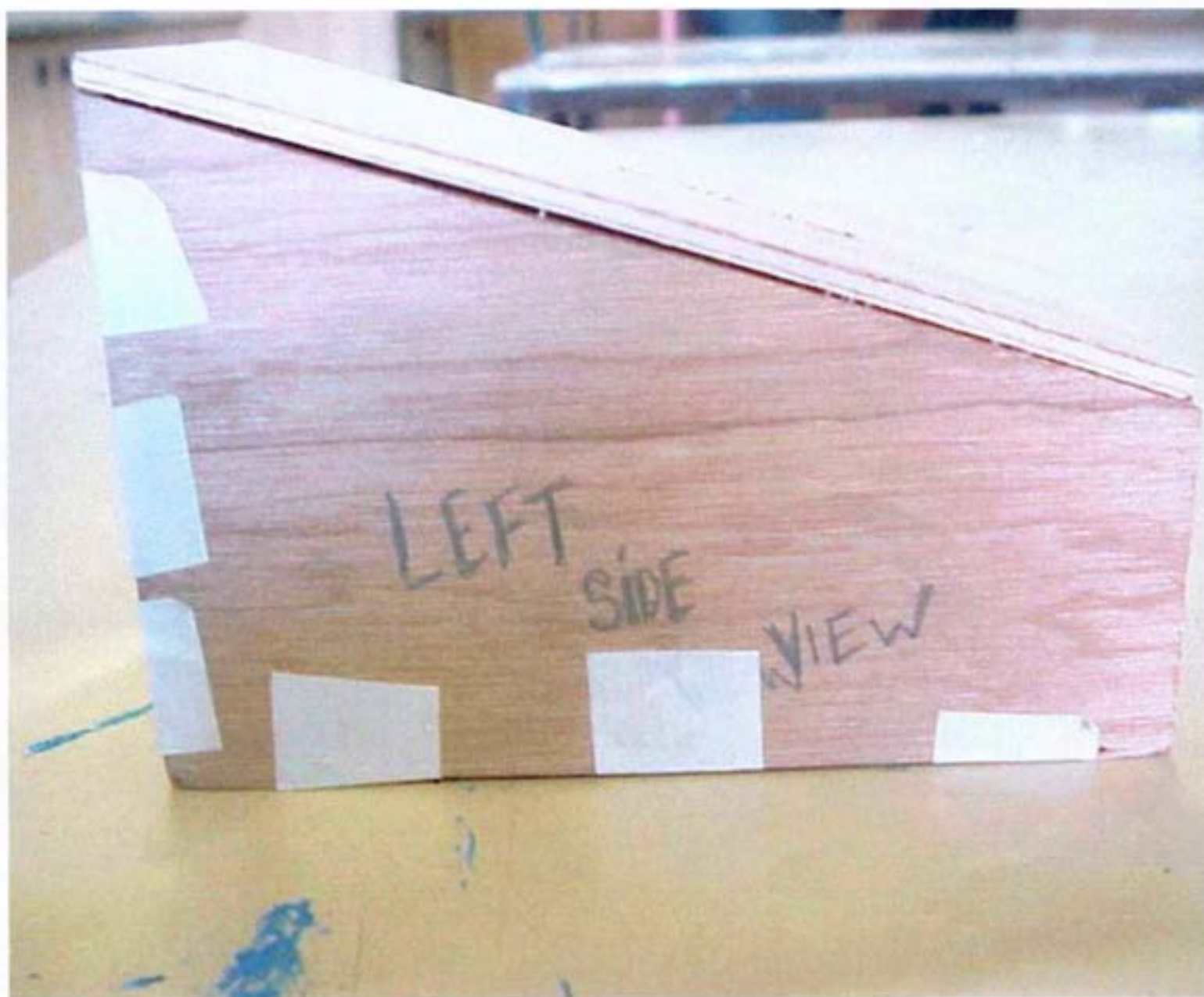
\* This is the back view of the dog kennel that's made of wood. The sticky tape is used for to hold the board well together because it's the glue to dry up.



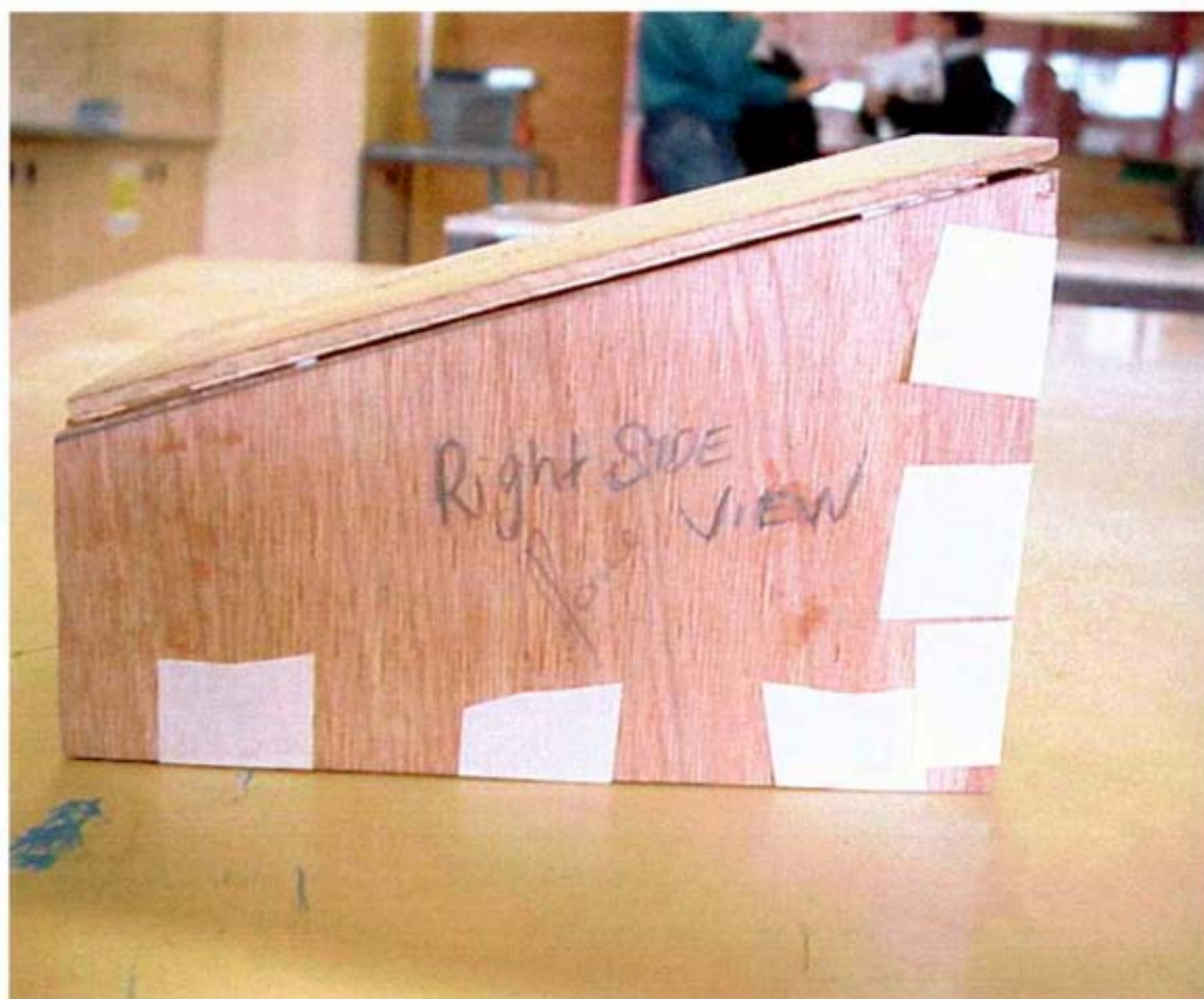
TOP VIEW

\* This is the top view that is of smooth. From the top it looks flat but from the side the top is horizontal.





- \* This is the left side of the kennel as you see the top is horizontal. You can see the slope from the bottom end of top looking like a roof.
- \* This is a different model look from the first model instead of a cylinder.



- x The right side view is the same as the left tape's from the bottom to the top.
- x I couldn't go home and so I glued them so it could be faster and not a waste of time.



\* Heres a little piece of this barrell.



\* This is the barrel that I first got from a person but I thought of getting another because this one would give me trouble threw out.

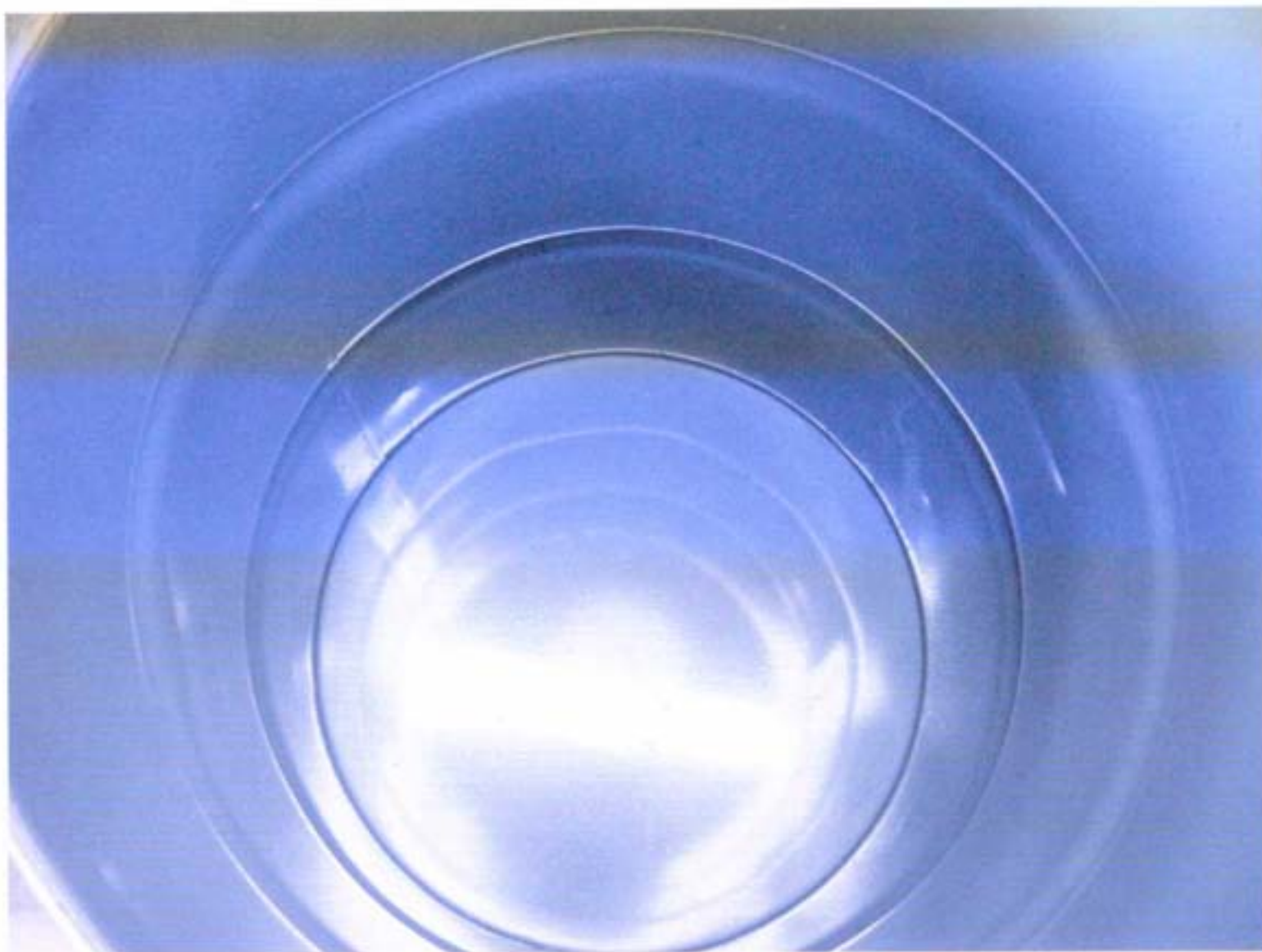


\* This is the 2nd barrel I got I bought it from Kemps creek for only \$9 dollars from a farm. Second hands but very clean.





+ This is the 1st barrel very dirty inside and it was very smelly like a smell of eg. WD 40 not a good idea to keep it around people or for a dog.

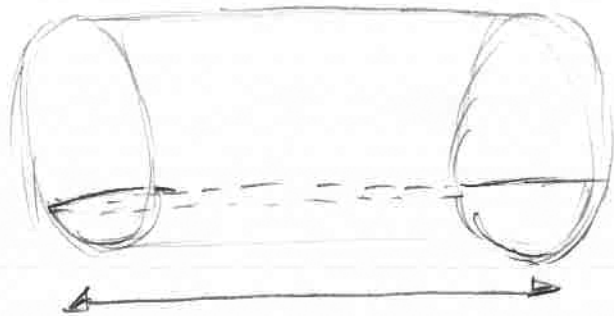


\* The second barrel inside was very clean no dirt or smell very good for the dog and environment so it does not affect it. I choose this barrel because it so clean no need to clean just a spray paint from the outside no fixing just matching.



## All the tools used for the MDP

- \* Rule
- \* Hammer
- \* Hole puncher
- \* Chisle
- \* Sash clamps
- \* G clamp
- \* Bend saw
- \* circular saw (teacher use)
- \* Disc Sander
- \* Sanding Drum
- \* Drill press
- \* Coping Saw
- \* Tinsip
- \* Core Blocker
- \* Bench
- \* Scriber
- \* Wood saw
- \* Sticky tape
- \* glue
- \* Hacksaw
- \* Nails
- \* Screw Driver



880mm

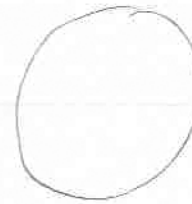
The barrells measurement

is 880mm

The skies are 90.3cm both

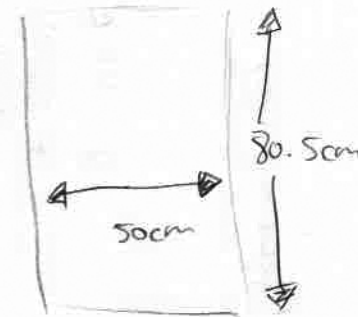


The stands that will sit on the  
skies are



around is  
360°

The Platform inside is  
80.5cm and the  
width is 50cm





✦ This is the damaged part very hard to fix. It could be fixed but it will still look bad

## Evaluation

I have completed the design of a dog kennel made out of a barrel the shape of a cylinder. It is sprayed silver and a platform is placed inside with fabric on top of the platform to make it cool for the dog. Another thing is two skies with another two pieces half a circle with a square will be placed on top of the skies with the barrel on top of them.

I have tested everything about this dog kennel. Any sharp edges smell that could make the dog sick, the temperature and comforts for the dog. It all came out negative and good results. It will not effect the environment and people living around. People will live to purchase a thing like this for their dogs to live in. It is only for dogs that are medium big and smaller like 60 cm long and 30-40 cm wide. This kennel the for the target audience that are attracted to dog kennels and that love dogs and have dogs like dog owners.

This whole folios and design took me 4 terms to think, research, write, plan and design it. With the help of my teacher and friends. It is 100% made by me. A product made by me, a clever one and what I call it the farm dog kennel. I researched many places like vets, hardware house and Big W. I surfed the net to get info and ideas. Even books helped me to find things and ideas.

This is my final project and I was so interest in making this dog kennel for myself and went through lots of time to complete with the help of my teacher. My dog will be very happy with this kennel that I have made for him it is a pitbull just a puppy. I have drawn up sketches of dog sizes. I have taken even photos of the two models I made and my two barrels. This will be favor for dog owners.





PRODUCT



DETAIL 1



DETAIL 2

- a satisfactory design project, showing evidence of development of a narrow range of design ideas. [CLICK TO VIEW \(P1\)](#)
- descriptions of factors (dog size, needs of dog, previous contents of barrel) that have influenced the development of the design are articulated. Ongoing evaluation strengthens this area. [CLICK TO VIEW \(P35 & 36\)](#)
- research conducted has not been analysed for factors relevant to the development of the design. [CLICK TO VIEW \(P11 & 12\)](#)



DETAIL 3