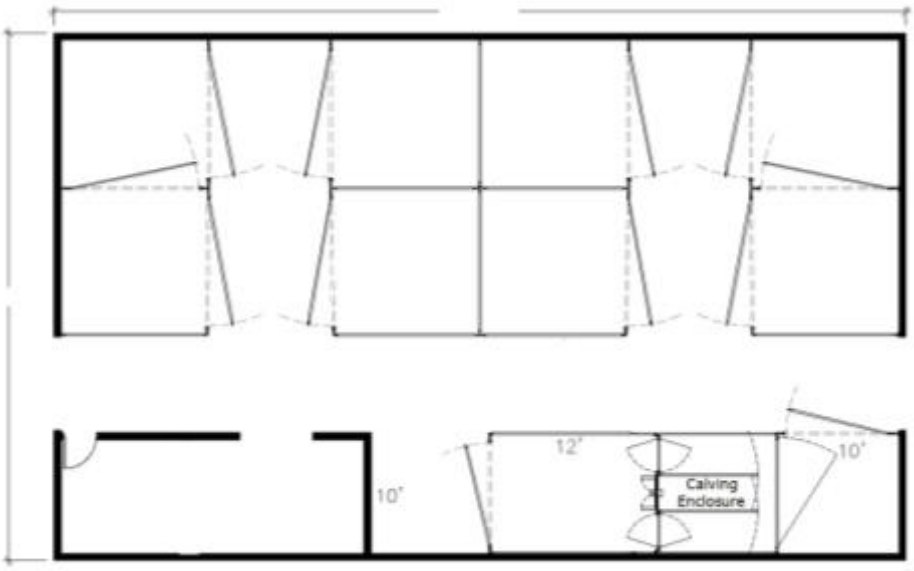
Team Activity 2016 KEY



Part A -

Configuration

POINTS POSSIBLE-_____

Barn Dimensions- 69’ x 43’

Length - 69’	Width- 43’
4 pens at 12’ each---> 12*4=48’ 2 alleyways together are 21’--->21/2=10.5’ea 48’+ 10.5’ + 10.5’ = 69’ *They should not try to calculate length from the tack room and chute- they would ultimately be guessing due to the blank space between the chute and tack room.	Doors at 9’ each Tack Room or Chute at 10’ each side 2 pens at 12’ each ----> 2*12=24 9’ + 10’ + 24’ = 43’ *only need to include one door and either the chute or the tack room to find the width of one side.

Materials Needed-

Panel #’s	Panels With Pins	Panels Without Pins
12’ panels - #3 12’ gates - #7 10’ panels - #1 10’ gates - #3	-Will Need panels from above -Possible use of skid steer for easy maneuverability -Gates with pins NOT hinges	-Will Need panels from above -Possible use of skid steer for easy maneuverability -Tools:black tie wire, fencing pliers, wire cutters, t-posts -Gates with hinges NOT pins

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Part B - Material Cost

POSSIBLE POINTS: _____

With Pinned Panels-$2,414.86	Without Pinned Panels-$2,396.58
12’ panels - #3--- 3* $94.99=$284.97 12’ gates - #7--- 7* $194.99=$1,364.93 10’ panels - #1--- 1* $79.99=$79.99 10’ gates - #3--- 3* $154.99=$464.97 Skid Steer(optional)--- $55*4 hours= $220.00 -use of skid steer for easy maneuverability -gates with pins NOT hinges *must give reasoning for skid steer, gates with pins (why/why not)	12’ panels - #3--- 3* $84.99=$254.97 12’ gates - #7--- 7* $184.99=$1,294.93 10’ panels - #1--- 1* $69.99=$69.99 10’ gates - #3--- 3* $144.99=$434.97 Skid Steer(optional)--- $55*4 hours= $220.00 -use of skid steer for easy maneuverability Tools -black tie wire(1@$6.49), fencing pliers(1@$17.99), wire cutters(1@14.99), t-posts(25@$3.29ea=$82.25) -Gates with hinges NOT pins *must give reasoning for skid steer, tools, gates with hinges (why/why not)

Part C – Justification

What scenario would you suggest the rancher to use? Would you change anything about the rancher's barn configuration? Explain. Why or why not?

With Pinned Panels	Without Pinned Panels
-justification about price(this one is more expensive), easier movement in the future, faster/easier set up, worth the coupe extra bucks -anything changed? If so why? If not, why doe this work best?	-justification about price(this one is cheaper), more labor-Worth the couple dollar savings? -anything changed? If so why? If not, why doe this work best?

Side Note:We could make one go over budget so that scenario is out of the question and they have to pick the one that is within budget? Makes it so they really have to double check math.

- Megan