

# First Class Orienteering

## F2

Using a compass, complete an orienteering course that covers at least one mile and requires measuring the height and/or width of designated items (tree, tower, canyon, ditch, etc.)

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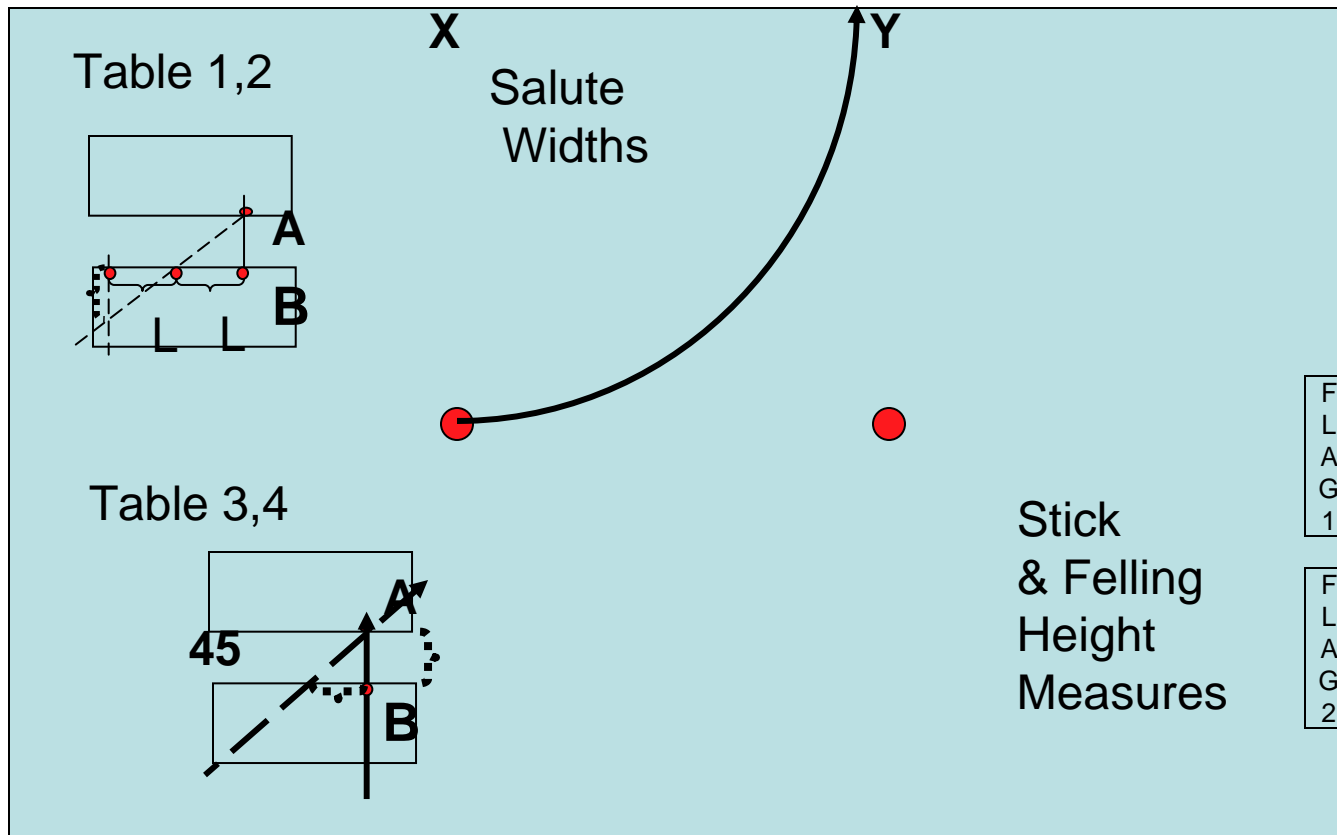
***“ It is better to be approximately correct than precisely wrong.”***  
***H. M Keynes(?)***

# Outdoor/Indoor Practice

## Items Needed

- **Ref: Handbook Pages 120 -125**
- **50' or 100' tape**
  - measure 100' pacing steps
  - Stakes or cans to note end points
- **Yardsticks/rulers – personal measurements**
- **“ 5' Scout” for proportion measure (paint stir)**
- **Paper and pencils**
- **Troop Flags (2), 4 tables**
- **Compass for Compass method**
- **Set up 5 stations:**
  - Flag 1 & Flag 2 (different heights)
  - Table 1 & 2
  - Table 3 & 4
  - Salute area
- **Personal Measurement – do as gathering activity:**
  - Outdoor course for 100' step count – as Scouts arrive?
  - Indoor table with rules to do personal measurements – record in book pp123
- **Helpers (3-5): 100' pace course; Flags; Salute; Table 1&2, Table 3 & 4**

# Room setup



**50' or 100' Pacing Distance outdoors – mark with can at each end  
Do as Scouts arrive**

# Personal Measurements (pp123)

Name: \_\_\_\_\_

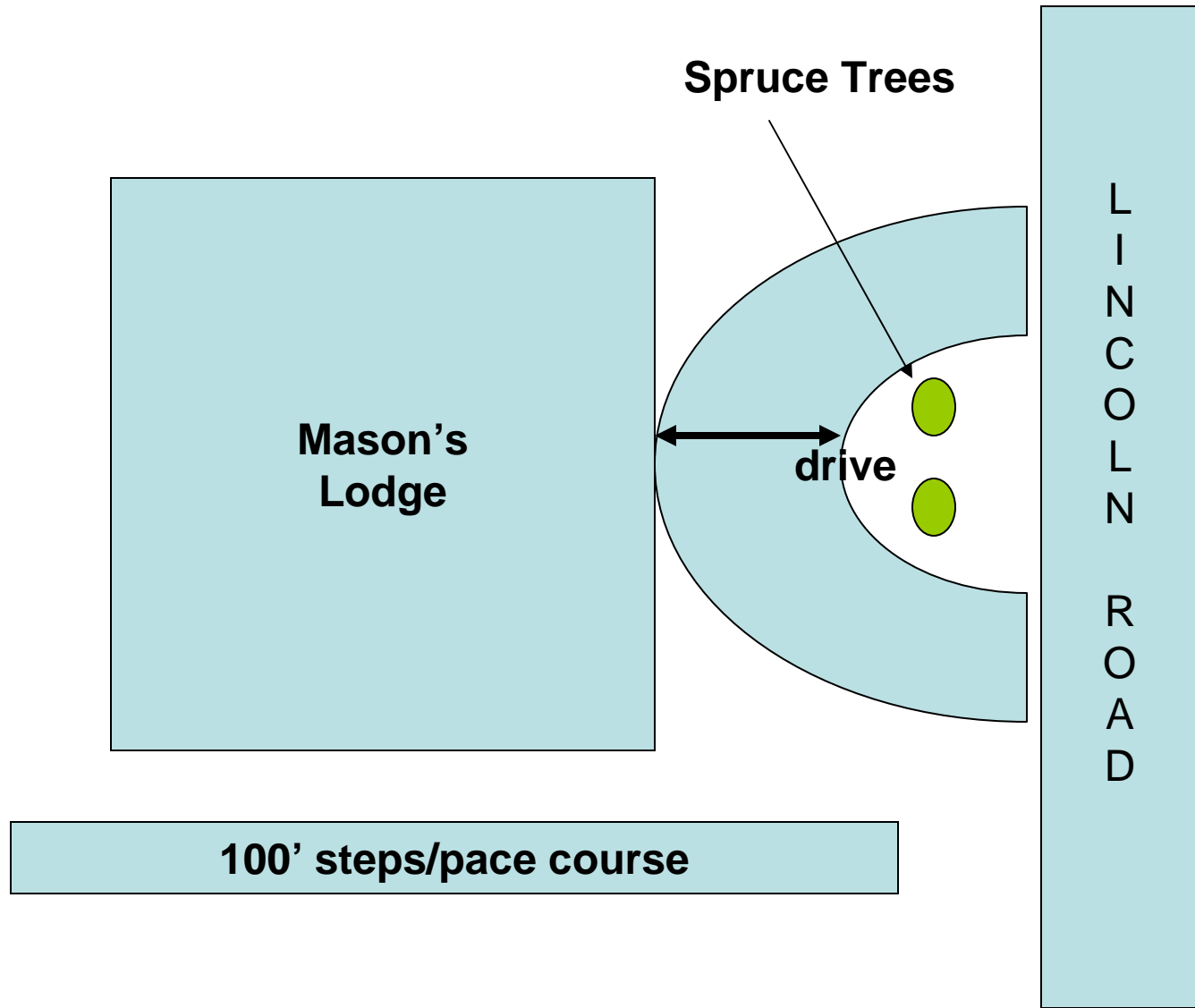
- Ft/Step =  $100' / \# \text{ of steps} =$  \_\_\_\_\_
- Height = \_\_\_\_\_ Ft + \_\_\_\_\_ inches
- Arm span = \_\_\_\_\_
- Arm Reach = \_\_\_\_\_
- Hand Span = \_\_\_\_\_
- Finger Length = \_\_\_\_\_
- Foot Length (in shoe or boot) = \_\_\_\_\_
- -----
- Ex:1 Smoot = 5' & 7" (Oliver R. Smoot)
- Harvard Bridge is 364.4 Smoots = \_\_\_\_\_ ft.
  - $364.4 \times 5' = \sim 1822.0'$  ; Add  $0.5 \times 364.4 = 182.2'$  for better answer

# F2 Heights and Widths Scorecard

Names: \_\_\_\_\_ , \_\_\_\_\_

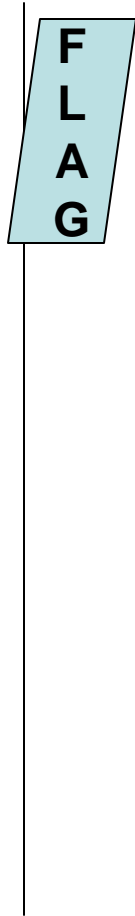
- Flag 1 \_\_\_\_\_ in “ 5’ Scout units “ (direct:\_\_\_\_\_)
- Flag 2 \_\_\_\_\_ in “ 5’ Scout units “ (direct:\_\_\_\_\_)
- Salute Width;\_\_\_\_\_ in feet (direct:\_\_\_\_\_)
- Table 1, 2 Width of “stream” inches:\_\_\_\_\_ (direct:\_\_\_\_\_)
- Table 3, 4 Width of “stream” inches:\_\_\_\_\_ (direct:\_\_\_\_\_)
- Driveway width in ft:\_\_\_\_\_ (direct:\_\_\_\_\_)
- Spruce Height in ft:\_\_\_\_\_ (direct:\_\_\_\_\_)

# Use steps/paces to measure width of driveway in front of hall



# Measure Flag pole in meeting room

Ref: pp 122 & pp123



- **Troop Flags near wall**
- Use **Stick Method**
  - Stand “ 5’ Scout” by flagpole
  - Height in multiples of “ 5’ Scout”
- Use **Felling Method**
  - **Do not lay flag on floor!**
  - **Use upright stick to sight**
  - **Turn 90 degrees to horizontal**
  - **Look at wall – have friend mark with object**
  - **Measure with “ 5’ Scout “**
  - **Answer In units of “ 5’ Scouts “**

# Measure Spruce Tree in Front of Mason's Lodge

- Use Stick Method and real Scout
  - Use a real Scout's height
  - Add up “height” with stick by sighting
- Use Felling Method and pace off on ground
- Compare results

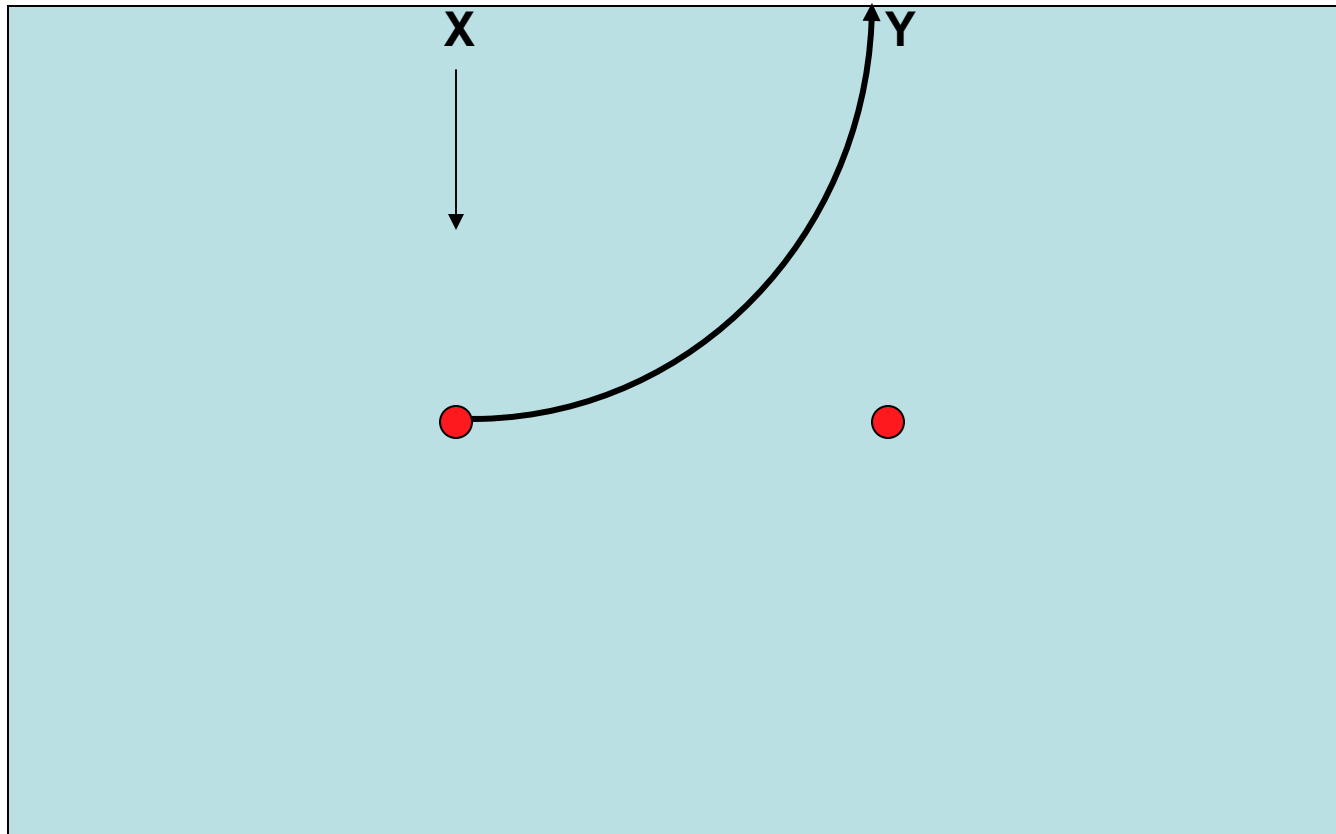


# Widths

- Salute Method
- Stick Method
- Compass Method

# Salute Measure of room

(Wall to center post) Ref pp124



Stand at X –in line  
With post

Do Salute Method to  
Sight on post

Turn to look towards  
Y and sight spot along  
Wall

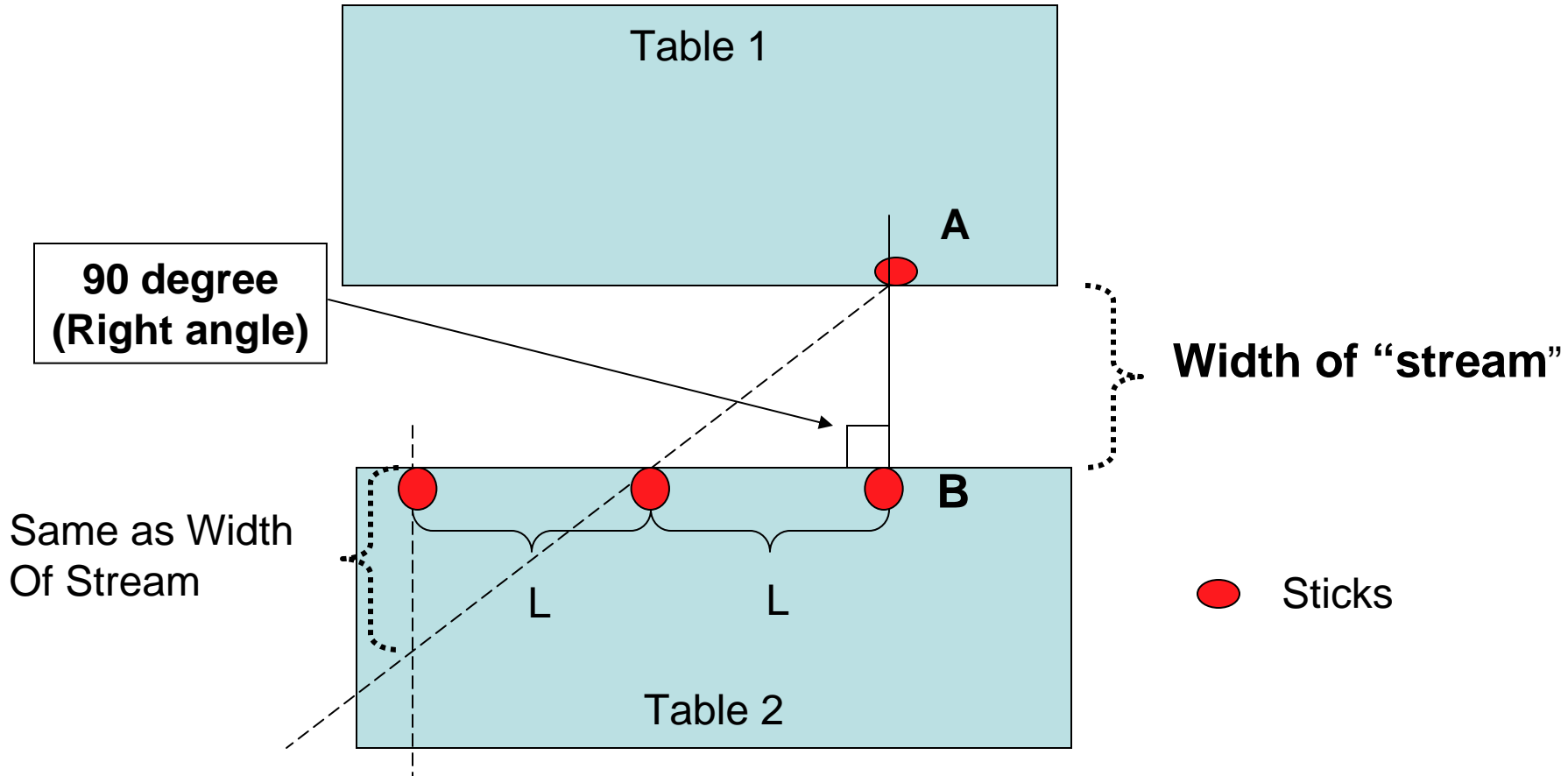
Step off distance from  
X to Y

Check with direct  
measure

Street →

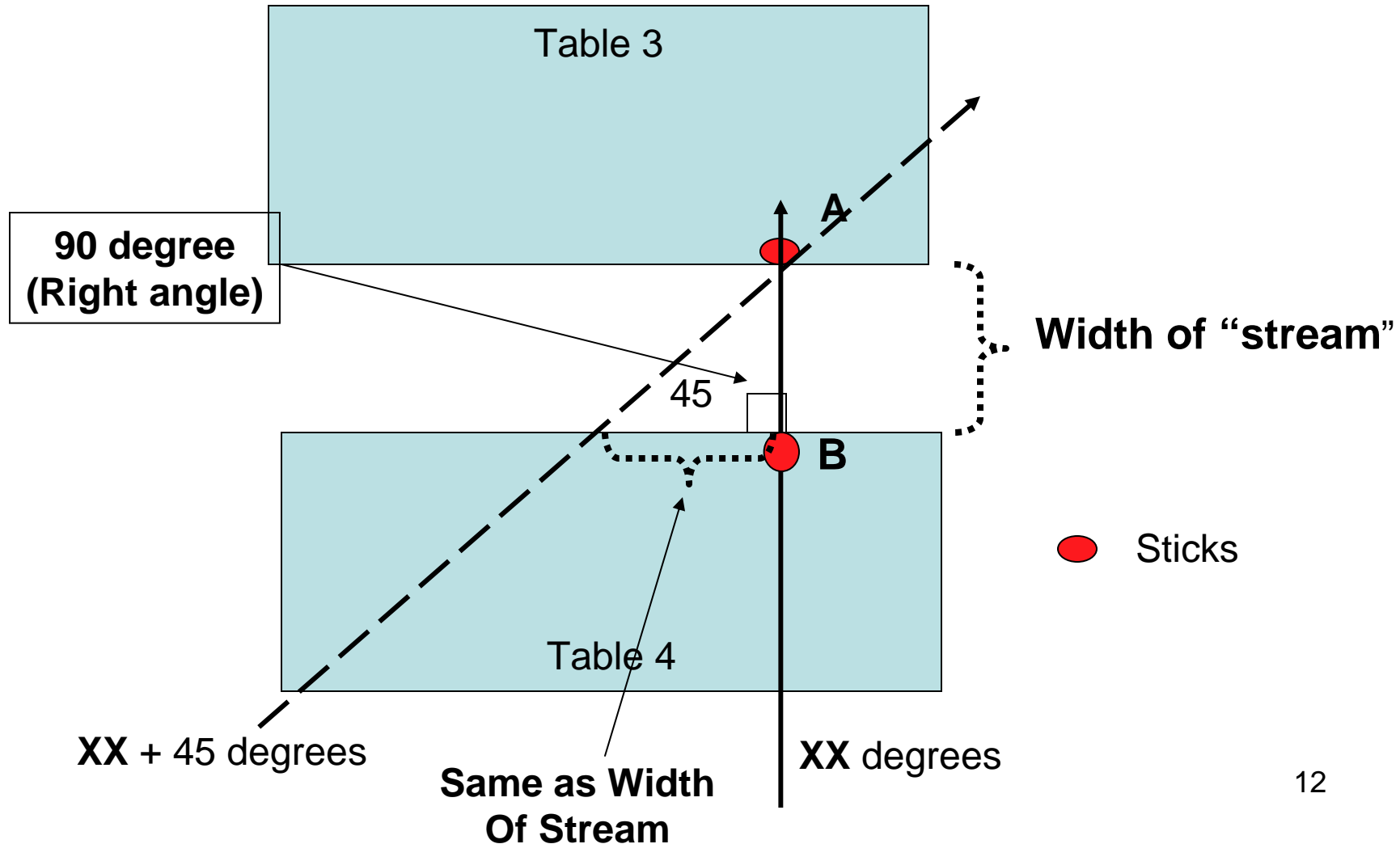
# Stick Method for Stream

Set Tables about 2' apart Ref pp 125



# Compass Method

Set tables about 4' apart Ref pp 125



# At Each Station

- Scouts do measurements in buddy pairs
  - Write down on sheet of paper
  - Do direct measure for comparison
- Compare results when all are done.