

JUNIOR SAINTS

ACTIVITY PLAN

AGES 7–11

SURVEYING

INTELLECTUAL CORE

Version 2026.1



Pace, Measure, Map

Walk a small lot, count your steps, and draw it on paper.

🕒 60 minutes · one session

🎯 WALK AWAY WITH

- Knows how many of his steps make ten feet.
- Has walked the four corners of a small lot in order.
- Has helped measure each side with a rope marked in feet.
- Has drawn the lot on paper with the four sides labeled.

📦 BRING / SET UP

- Four cones or markers and a measured ten-foot start line on the ground (tape or chalk outside, painter's tape inside)
- A long rope marked at one-foot intervals with a marker or tape, plus a notepad and pencil for the leader
- A paper sheet on a clipboard and a pencil for each Junior Saint
- A yardstick and a small block of wood for the elevation demo
- A printed setup map of the four-cone lot for the leader

FOR THE LEADER

This is a Junior Saints preview of the **Surveying** badge. No advancement credit is earned here — the goal is to introduce these concepts to Junior Saints alongside the older Saints Global youth working the full BRC. The 4-session Saints Global arc lives under *Activity Plan (SG)* in the BRC builder.

PACE, MEASURE, MAP (PAGE 1 OF 2)

THE HOUR

BLOCK 1 · DISCUSSION **Opener — Welcome circle**

⌚ 5 min

Stand in a circle. Each Junior Saint says his name. Then he names one thing he has measured before. Examples: his height on the wall, a cup of milk, a Lego tower, the length of his arm. The leader goes last. Keep each turn short.

BLOCK 2 · SKILL PRACTICE **Count your pace**

⌚ 10 min

1. Stand at the ten-foot start line. The leader points to the end line ten feet away.
2. Walk normally from one line to the other. Count each step out loud.
3. Tell the leader your number. He writes it on the pad next to your name.
4. Walk back the same way. Count again. Pick the number that matches both walks.
5. Now you have your pace number. That is how many of your steps make ten feet.
6. Teaching point: every surveyor knows his own pace before he ever measures a lot.

BLOCK 3 · PHYSICAL **Walk the four corners**

⌚ 13 min

1. The leader sets four cones in a wide square shape. Each corner gets a number: 1, 2, 3, 4.
2. Stand at corner 1. Walk slowly to corner 2. Count your steps.
3. Walk from corner 2 to corner 3. Then 3 to 4. Then 4 back to 1.
4. Tell the group your step count for each side.
5. Some sides are longer. The cones make a shape, not a perfect square.
6. Teaching point: walking the lot in order is how a surveyor sees the shape with his feet.

BLOCK 4 · SKILL PRACTICE **Measure with the rope**

⌚ 15 min

1. Two youth hold the rope, one at each end. The leader picks the first pair.
2. Walk to corner 1 and corner 2. Stretch the rope tight between the cones.
3. Count the feet on the rope from one cone to the other. Tell the leader the number.
4. The leader writes the number on the pad. Side one is ___ feet long.
5. Switch pairs. Measure side two, then side three, then side four.
6. Compare your step count to the rope number. Pretty close, right?
7. Teaching point: a rope or tape is more exact than steps. Surveyors use both.

PACE, MEASURE, MAP (PAGE 2 OF 2)

THE HOUR — CONTINUED

BLOCK 5 · CREATIVE **Draw the lot**

⌚ 12 min

1. Sit on the ground with paper and a pencil.
2. Draw a small dot near the top of the page. Write a 1 next to it.
3. Move down and to the right. Draw a second dot. Write a 2.
4. Add dots 3 and 4 the same way. Try to keep the shape like the cones outside.
5. Draw a line from 1 to 2 to 3 to 4 and back to 1.
6. Next to each line, write the feet number from the rope.
7. Show your map to the youth next to you. He says one thing he likes about it.
8. Teaching point: a map shows shape and size on one small piece of paper.

BLOCK 6 · REFLECTION **Close — Stretch and cheer**

⌚ 5 min

1. Stand in a circle. Reach up high. Touch your toes. Hold each for ten seconds.
2. Drink water.
3. Each Junior Saint says: 'My pace is ___ steps for ten feet.' Just the number.
4. Group cheer: 'Pace, measure, map!' Three times.
5. Homework: pace off one room at home with a parent. Tell him how many steps long it is.

AT THE CLOSE · DEBRIEF

1. How many of your steps make ten feet?
2. Which side of the lot was the longest in feet?
3. Which corner of your drawn map was easiest to start with?

📋 *This is a Junior Saints preview session. No Surveying BRC requirements are earned here — the goal is to introduce the concepts the older Saints will work on.*

HANDOUT 1 OF 1

FROM SESSION — WALK THE FOUR CORNERS

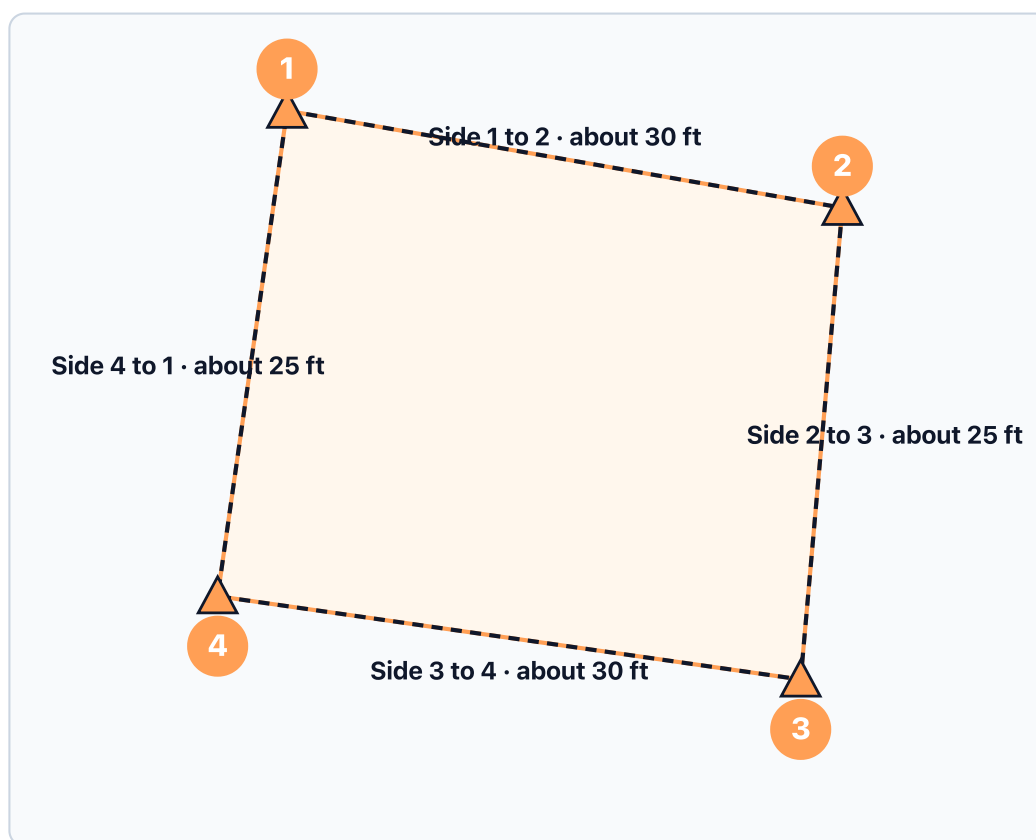
The Four-Cone Lot

Print and use to set up the lot before the session. Label the cones one through four.

SURVEYING · JUNIOR SAINTS SETUP MAP

The four-cone lot.

Set this up before the youth arrive. Walk it once yourself.



Setup notes for the leader

1. Find a flat space about 35 feet wide and 35 feet long. Grass or pavement both work.
2. Place four cones in a wide four-sided shape. The sides should not all be the same length.
3. Mark each cone with a numbered card: 1, 2, 3, 4. Walk corner to corner in order yourself first.
4. Stretch the rope along each side once before the youth arrive. Check the foot counts on the rope.

Walk the lot once yourself. Then call the youth to the start.

Print this handout for in-person reference during the session.