

Mrs. Gaines is buying a new rug for her room. To help her figure out what size to buy, she asks 2 students, Chip and Joanna, to measure her room.

- Chip measures one side of the room with a 9-ft tape. It fits end-to-end exactly 4 times. Draw a bar model to find the length of the room, in feet.
- Joanna measures the same side with a 3-ft yardstick. It fits end-to-end exactly 12 times. Draw a bar model to find the total length, in feet.
- Does it make sense that Chip and Joanna get the same total length? Why or why not?