

## **ACTIVITY IA11.6: Three-eighths of the Way Across the Board**

**Intended learning:** To learn to create eighths by composition of partitioning through repeated halving and to use the relationship between one-eighth and three-eighths, or one-quarter and one-half.

**Materials:** A whiteboard and marker pens or a blackboard and chalk, a piece of string longer than the width of the board and a pair of scissors.

**Description:** Invite three students to estimate where three-eighths of the width of the board would be, mark the point and put their initials next to their estimates. Students can be selected to obtain variation in the estimates. Ask your students to tell you how we could determine who was closest to three-eighths of the way across the board. Show the string and the pair of scissors and ask if anyone could use the string to show who is closest to three-eighths. Students must partition the string into eighths and justify their reasoning by iterating one-eighth three times.