

Team Leaders

You need: counters (optional)

ACTIVITY

It's athletics practice night, and all 50 children turn up. Mr Randall, the coach, needs team leaders for each of the five activities. He selects them like this:

"OK, jog around," yells Mr Randall. The children jog in a large bunch. "Six!" bellows Mr Randall. The children scramble to make groups of six. Two children can't fit into a group.

"You two, wait over here. The rest of you jog around." The children jog. "Seven!" They rush to make groups of seven. Six children are left over. They join the two who are already "out".

1. a. Mr Randall then calls out the numbers 5, 6, 8, 9, 7, 6, 5, 8, and 5. Starting from his first call (6), how many children are left over each time? Set your answer out as a table.

Children	Groups	Remainder
50	$8 \times 6 = 48$	2



- b. Can you get the same number of leaders in fewer turns? You can only call out single-digit numbers. Explain what you did.

2. One evening, the high jump mat is away being fixed, so Mr Randall only has to find four leaders out of the 50 children. How might he do this?
3. The following week, the high jump mat is repaired, but 10 children don't come to practice. What is one way Mr Randall could select his five team leaders that evening?