

Chapter 8 – Rich task 2 - Shuffles

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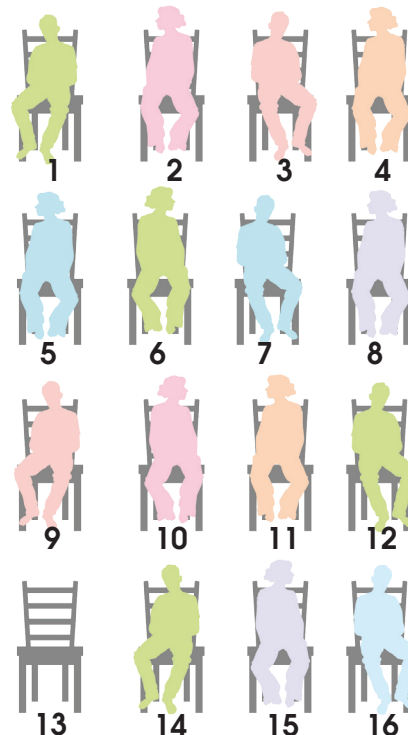
Shuffles

- 1 Put 16 chairs in 4 rows of 4.
- 2 Seat 15 students on the chairs as shown.
- 3 Move the student from **seat 1** to **seat 16** in as few moves as possible.
- 4 Follow these rules.

- The person in front, behind or next to the empty chair may move to it.
- No one else may move.
- No one may move diagonally.

- What is the smallest number of moves?
- What is the smallest number of moves for chairs in 5 rows of 5 if you leave seat 21 empty and move the student from seat 1 to seat 25?

You could set this up using counters instead of chairs.



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