

MATH 1300, Mathematical Explorations

Square Mattress and Change Ringing

Activity

- Distribute Square Mattress and Change Ringing handout and have students work on it in groups.
- If students are unfamiliar with Hamiltonian cycles, question 11 can be skipped or used as a jumping off point to explore them.

Questions for class

- How do the symmetries of the square mattress relate to those of the rectangular mattress?
- Why do you think the square mattress and change ringing activities were included on the same worksheet?

References and resources

[Blog Post: Ringing the Changes](#)

Square Mattress and Change Ringing Handout

Counting Symmetries Worksheet

[Article: Fabian Stedman: The First Group Theorist?](#)

Follow-on activities

Hamiltonian Cycles