

Answers:

1. a) Pile 1: 6 matches
Pile 2: 3 matches
 - b) Pile 1: 8 matches
Pile 2: 0 matches
 - c) Pile 1: 15 matches
Pile 2: 4 matches
Pile 3: 8 matches
-
2. Move the coin on square 16 to square 8.
 3. Move the coin on square 25 to square 24.
 4. Move the coin on square 18 to square 15.
 5. Move the coin on square 7 to square 4.
 6. Move the coin on square 39 to square 33.
 7. Move the coin on square 3 to square 2.
 8. Go last.
 9. Move the coin on square 37 to square 28, or move the coin on square 25 to square 18,
or move the coin on square 12 to square 5.