

## Unit 6: Statistics



### Time Out

*Time Out* is related to *Unit 6: Statistics*.

*Time Outs* strengthen numeracy and reasoning skills by using math strategically.

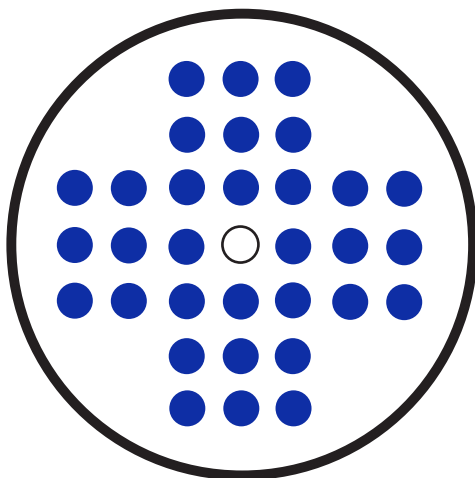
Use strategic thinking to play the game and answer the questions that follow. You will be assessed according to the rubric provided.

Category	Strategy and Procedures	Mathematical Reasoning
	<i>The student...</i>	<i>The student...</i>
4	<ul style="list-style-type: none"> <li>uses efficient and effective strategies to solve the problem(s) and complete questions</li> </ul>	<ul style="list-style-type: none"> <li>presents complex and refined mathematical reasoning</li> </ul>
3	<ul style="list-style-type: none"> <li>uses effective strategies to solve the problem(s) and complete questions</li> </ul>	<ul style="list-style-type: none"> <li>presents effective mathematical reasoning</li> </ul>
2	<ul style="list-style-type: none"> <li>uses effective strategies inconsistently to solve the problem(s) and complete questions</li> </ul>	<ul style="list-style-type: none"> <li>presents some evidence of mathematical reasoning</li> </ul>
1	<ul style="list-style-type: none"> <li>does not use effective strategies to solve the problem(s) and complete questions</li> </ul>	<ul style="list-style-type: none"> <li>presents superficial or confusing evidence of mathematical reasoning</li> </ul>

This assessment is worth 8 marks. Take your time.

Peg solitaire is a centuries-old game that is still enjoyed by people today. The game is played by using one peg to hop an adjacent peg. The hopped peg is then removed from the board. The goal is to remove all but one of the pegs.

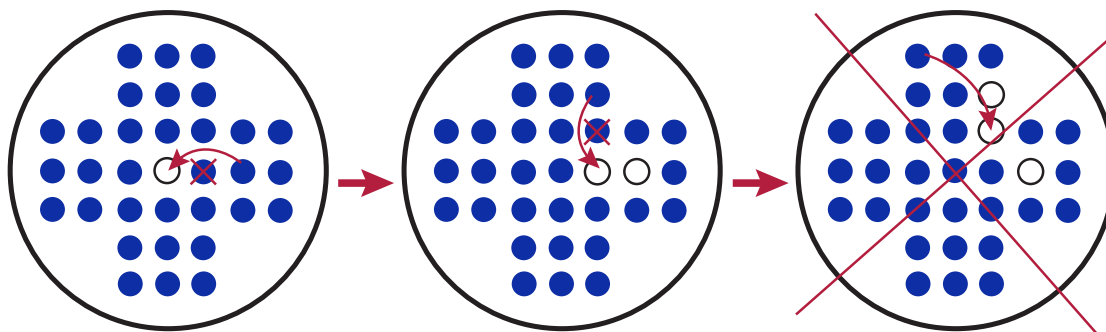
A common board shape is the “English board”.



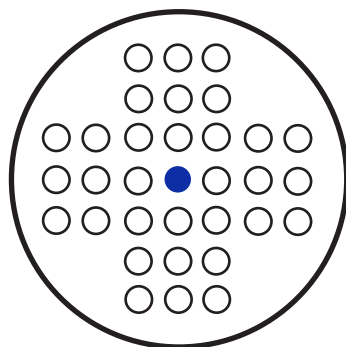
An English solitaire board.



Anne Chabot de Rohan, a French noble playing peg solitaire in 1687.



A peg is removed each time it is hopped over. Only adjacent pegs can be hopped. Diagonal hopping is not allowed.



The goal is to remove all pegs but one.

1. Choose one of the following options and play peg solitaire a few times.
  - Find 32 markers such as beans or coins and play peg solitaire using the template at the end of *Time Out*.
  - Enter “online peg solitaire” into a search engine. Find a game that resembles the one shown on the previous page and play it.
2. Describe a strategy you used to play the game.  

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3. Draw a scenario that includes at least 8 pegs. Use a series of diagrams to show how that scenario can be reduced to a single peg.

4. Variations of the game include using a differently shaped board or starting with more than one empty position.
  - a. Make your own variation of the game and play it or have someone else play it. Sketch and describe your variation.

- b. Do you think your version is more or less difficult than the English board version? Explain.

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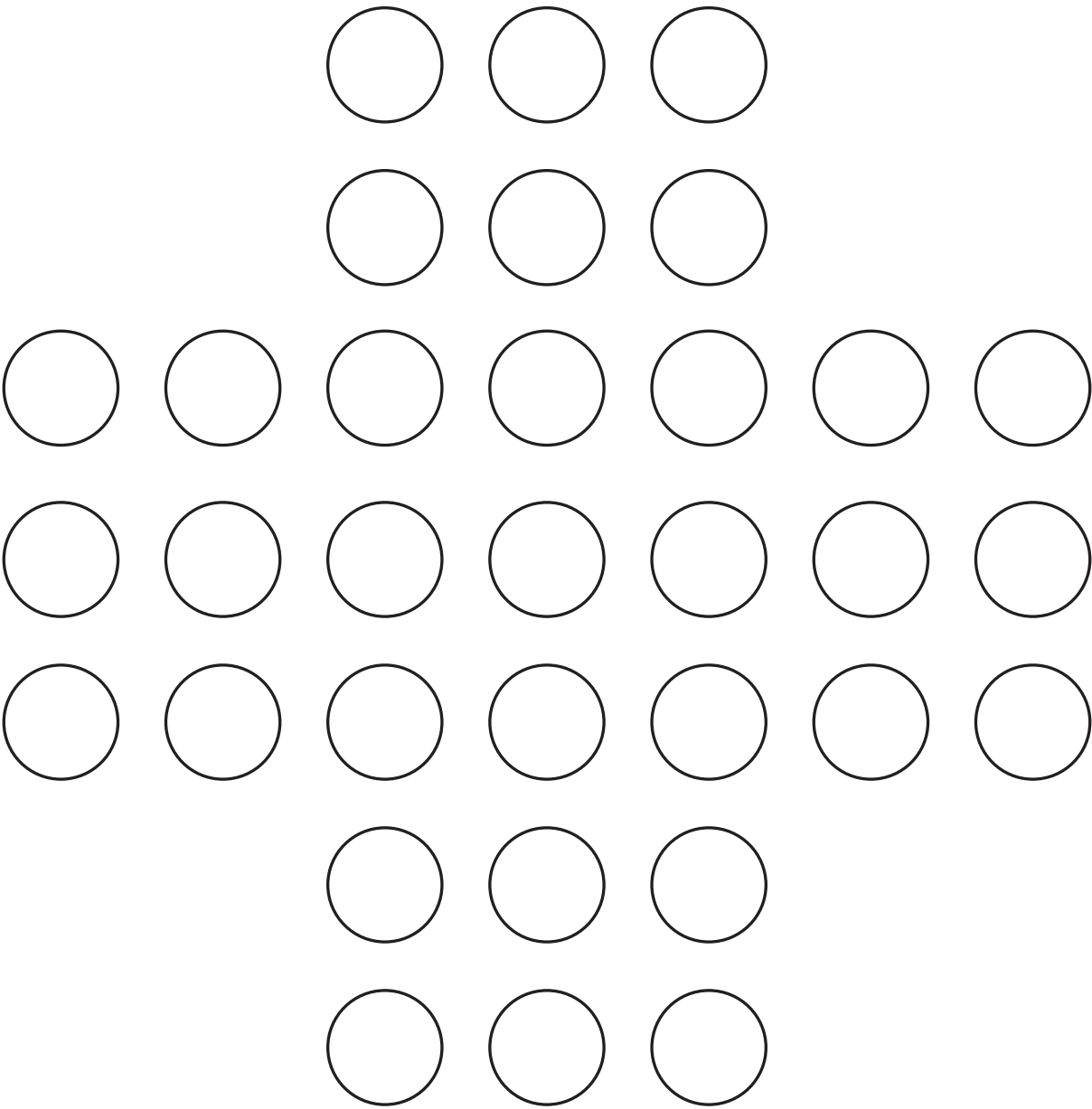
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You have completed *Unit 6 Time Out*. Please proceed to the *Unit 6: Final Review Assignment*, on the next page of this *Workbook*.