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## Halloween Tac Tix

*Adding & Subtracting in the range 10 to 100*

### Aim:

- To practise strategies for adding and subtracting in the range 10 to 100
- To experiment with strategic thinking.

### What you Need:

2 players  
1 game board  
16 counters

### Preparation:

- Place 16 counters over the numbers on the board.
- Decide on the number to practise adding or subtracting e.g. If 10 is selected then 10 is added or subtracted to each number when uncovered.

### How to Win:

- Force your opponent to remove the last counter.

### How to Play:

1. The person with the longest little finger goes first. Take turns going first in the following games.
2. Player 1 removes 1, 2, 3 or 4 adjacent (side by side) counters from along one of the straight lines. The player then answers the algorithms revealed.

**NB A player may not remove a series of pieces if there is an empty space between the pieces.**

3. Player 2 then does the same.
4. Play continues until one player is forced to remove the last counter.

### Variations:

- Only answer the last algorithm revealed by each player on their turn.
- Change the number to be added or subtracted e.g. 4, 5, 6, 7, 9, 8, 11 etc

### To Note:

- I like starting this game by adding and subtracting 10 then move on to other numbers.

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### Before the Game:

- Use a Hundreds Chart to explore patterns for adding and subtracting ten from a number and other strategies.
- Discuss possible efficient strategies for adding & subtracting 10 and other numbers

### During the Game:

- Monitor the players to see which strategies they are using.

### After the Game:

- Where to next?

### Extension:

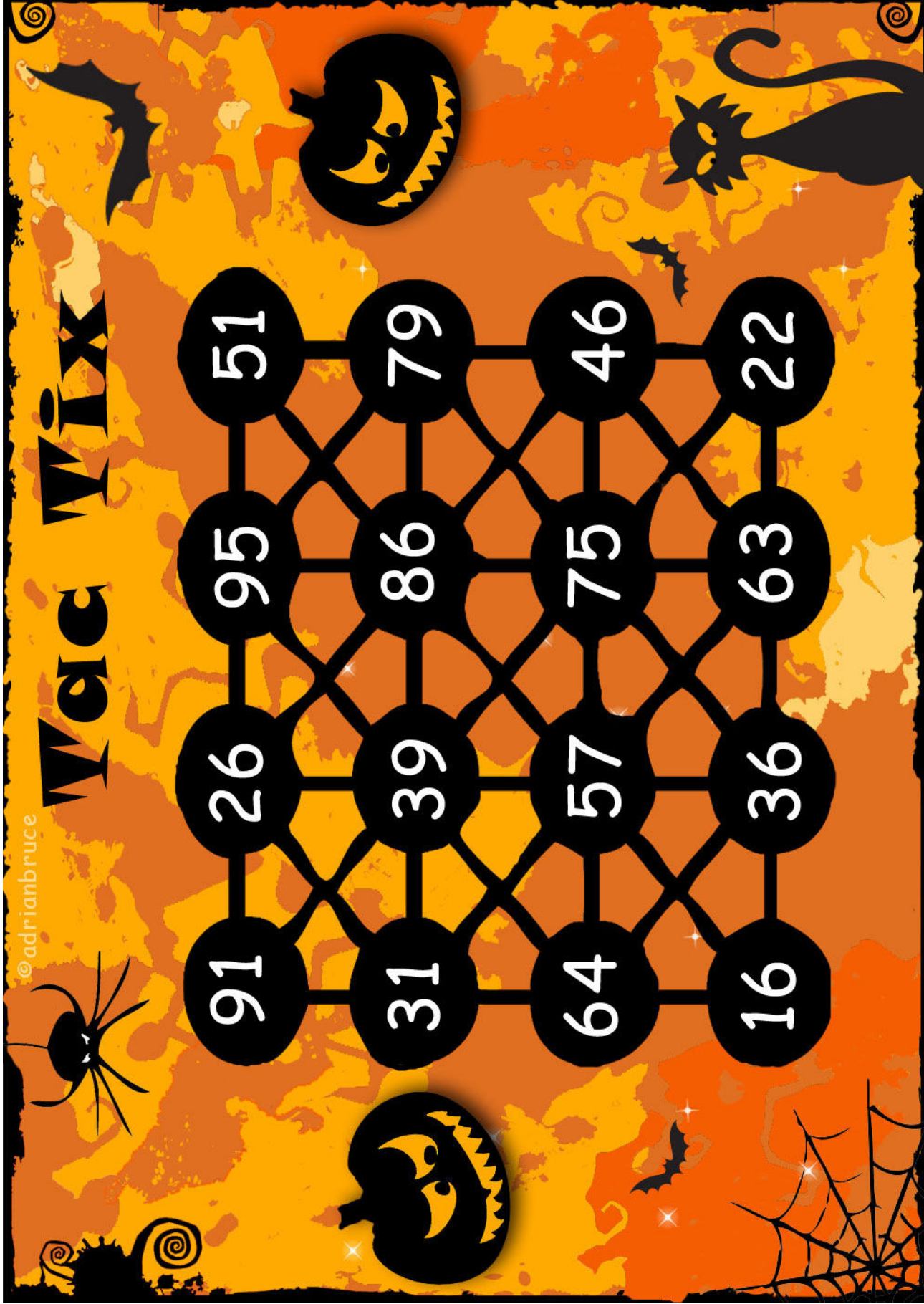
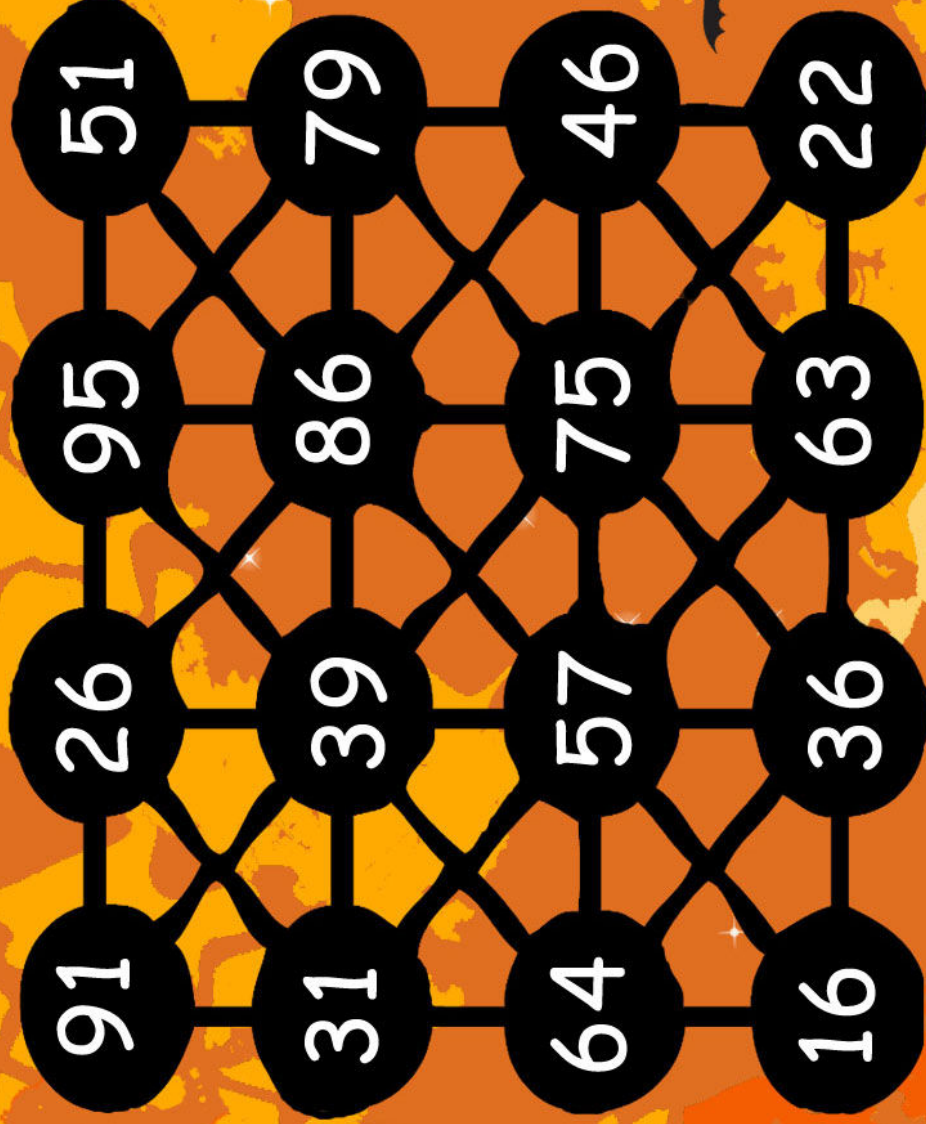
- Mathematicians have studied this game for a very long time and have figured out there is a way for the person who moves second to always win. Try to discover this method.

**Hint:** *The winning strategy has something to do with removing pieces which are 'symmetrically opposite'.*

- Search the Internet for an online version of this game i.e. Play this game against a computer.
- Design your own five by five or six by six board Tic Tax board.

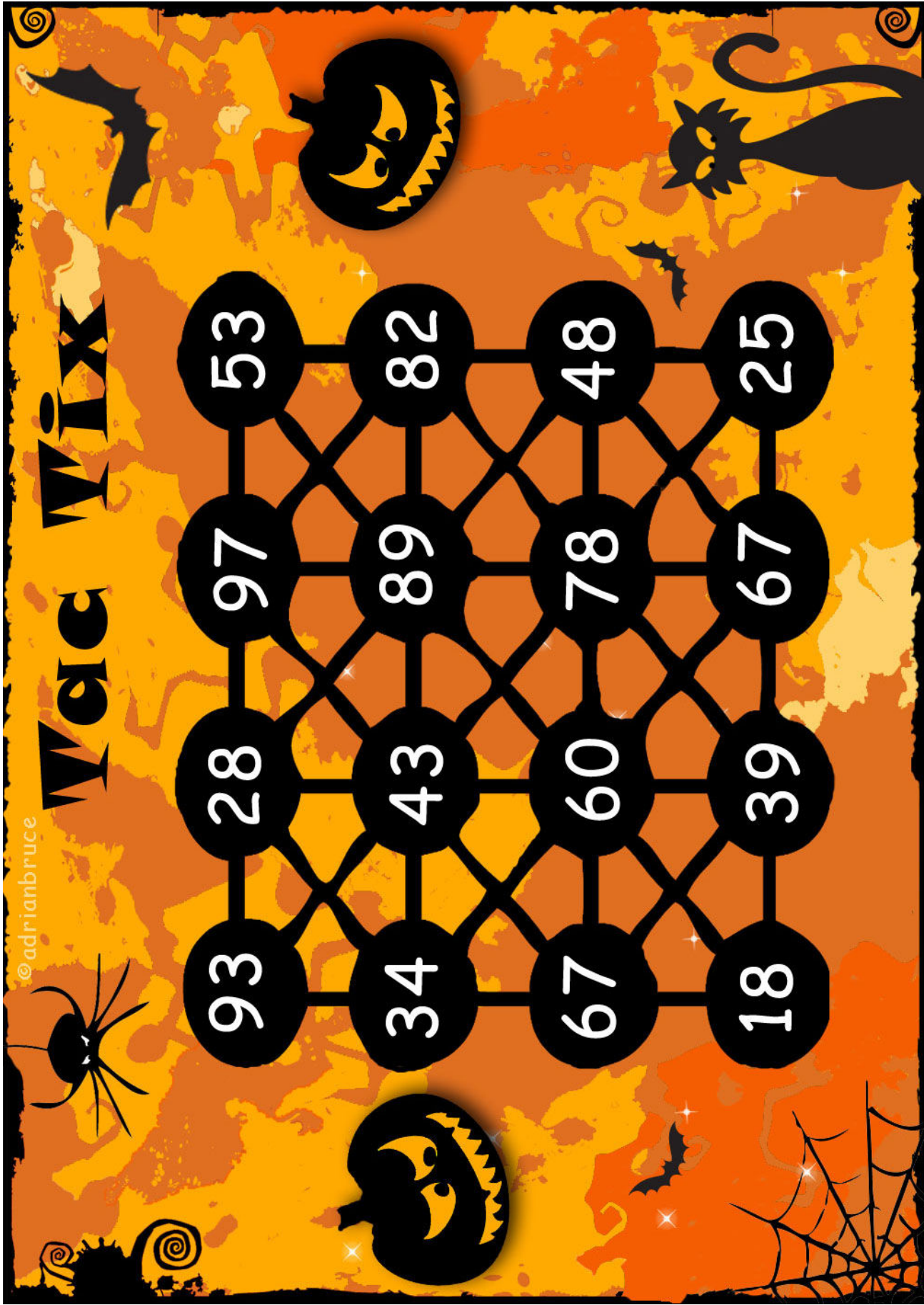
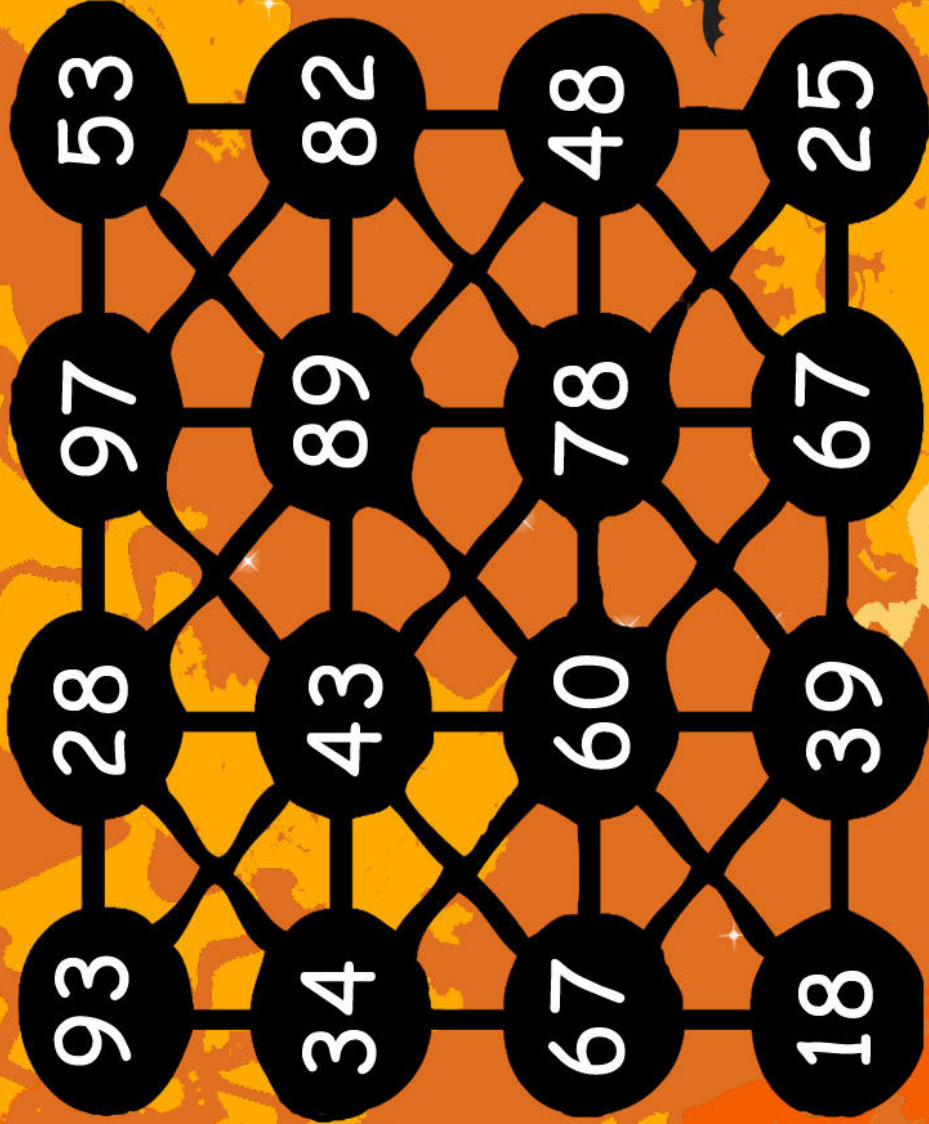
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# Wic Wix



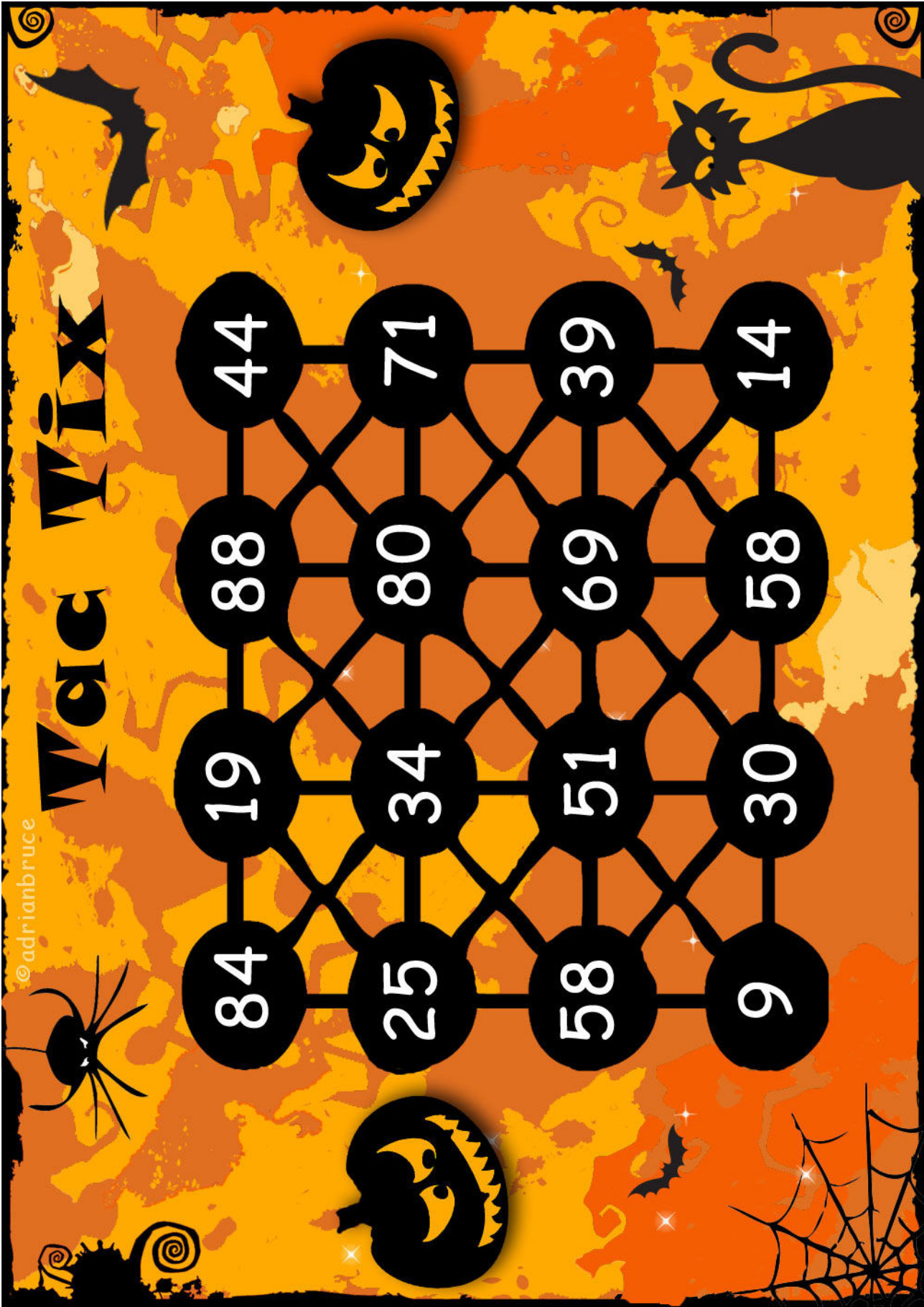
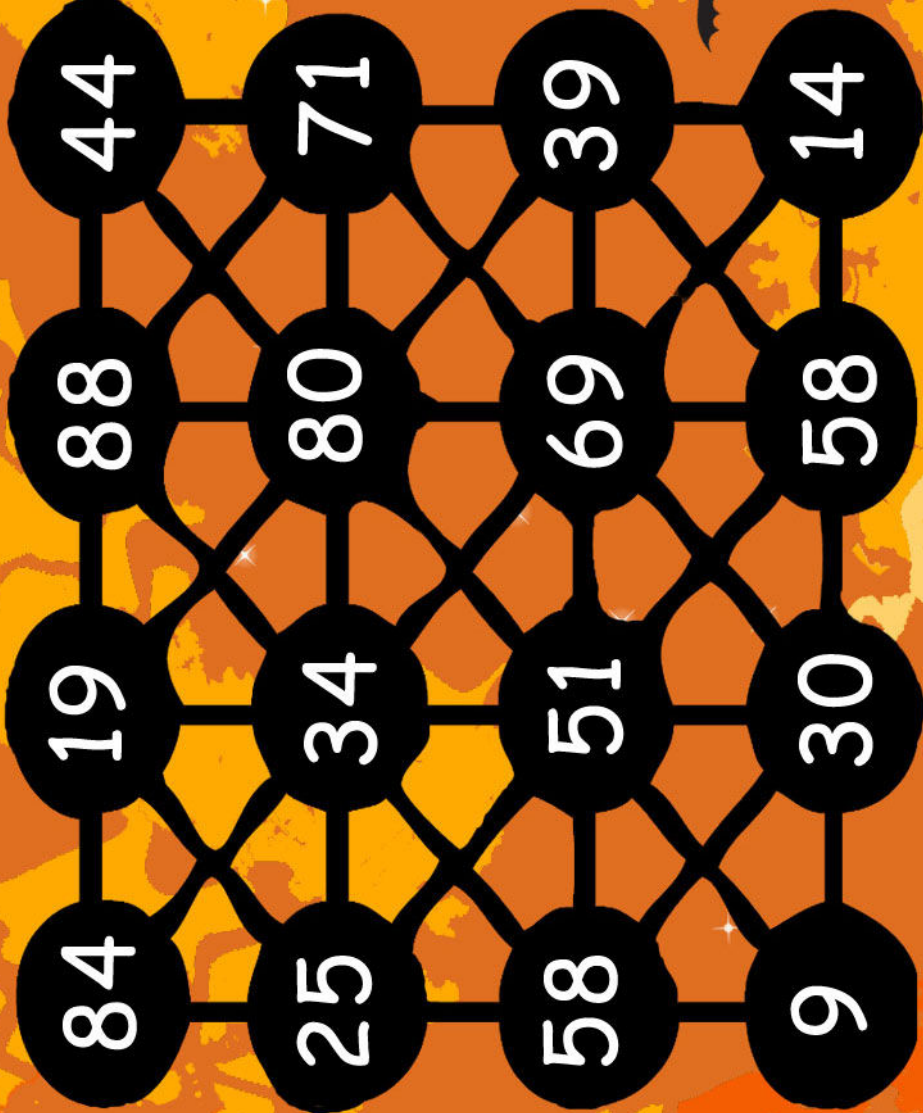
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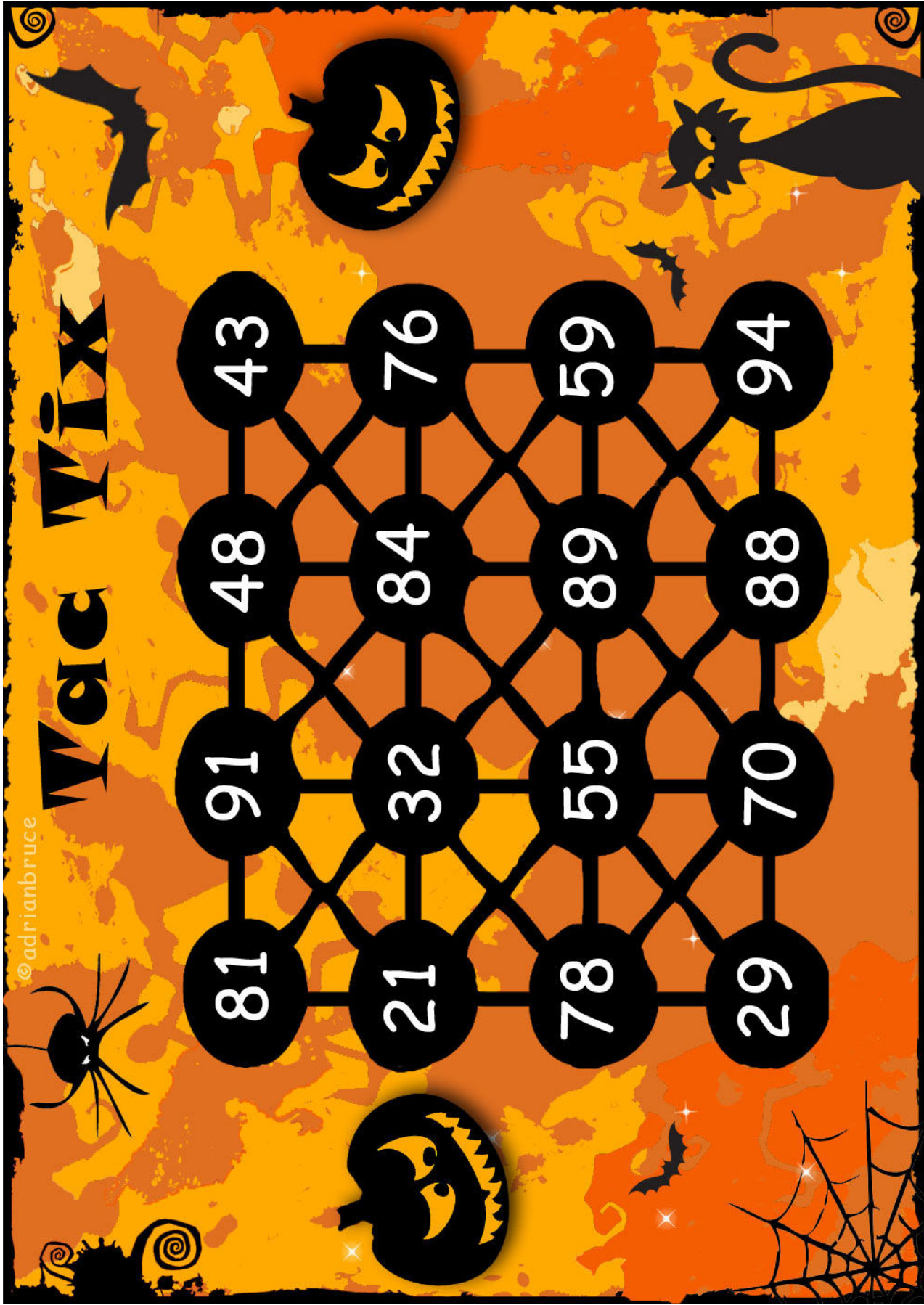
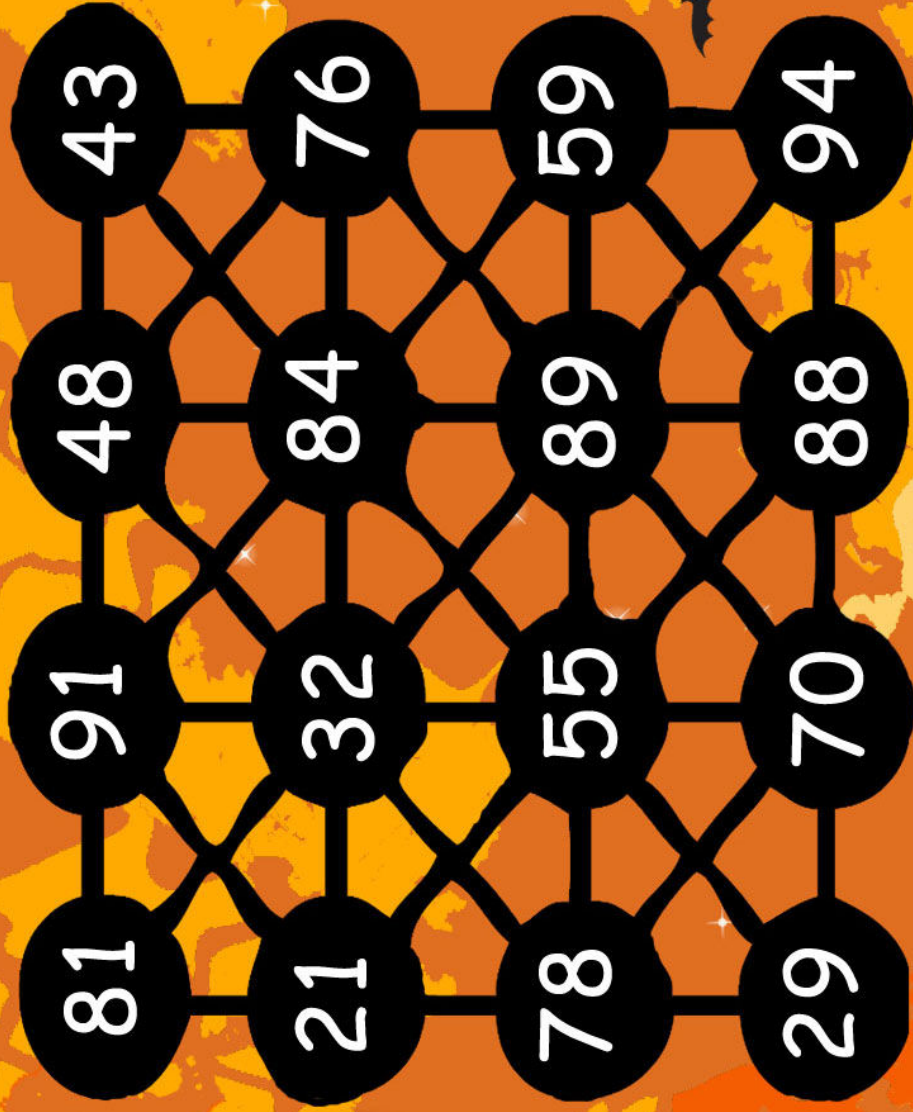
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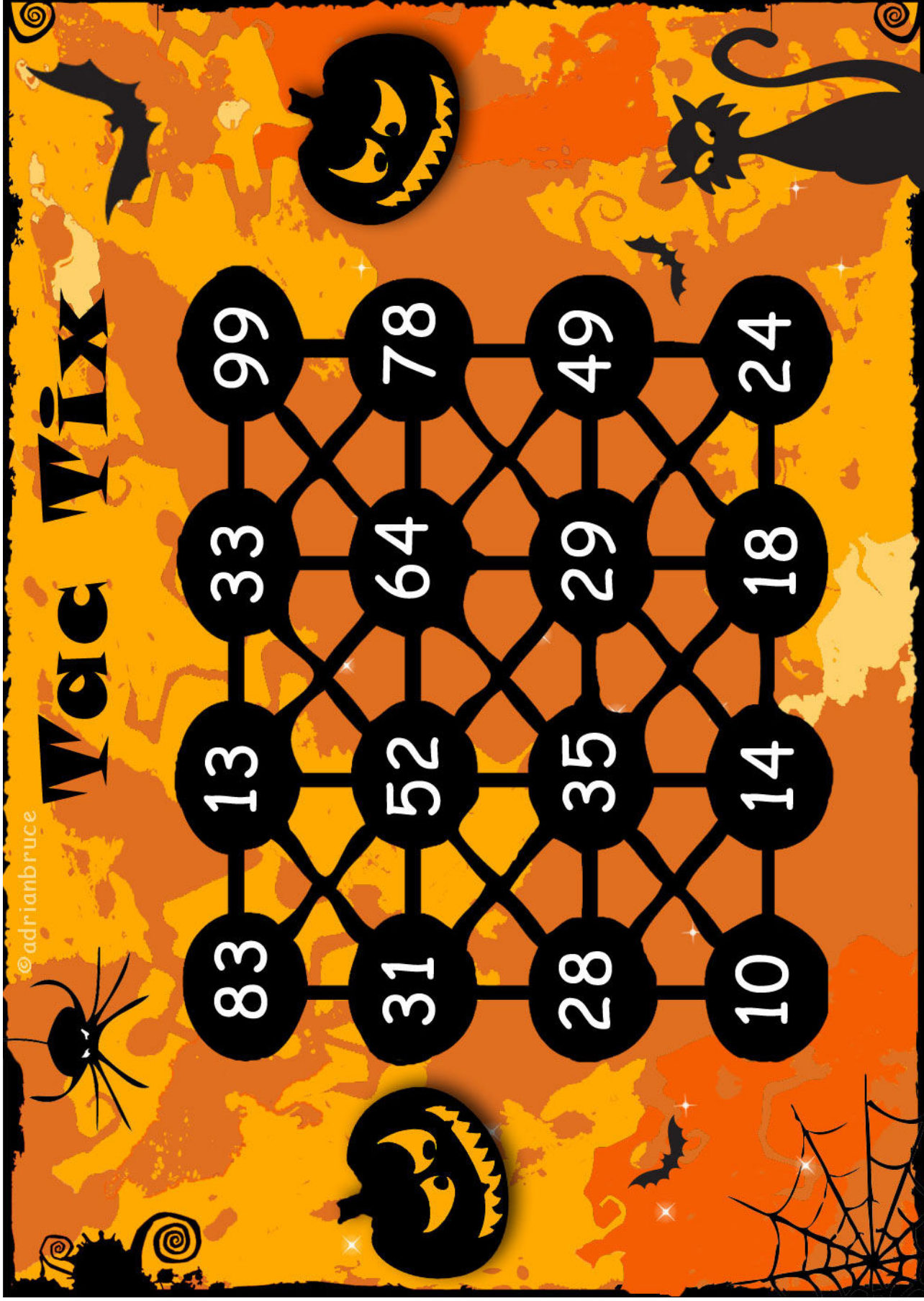
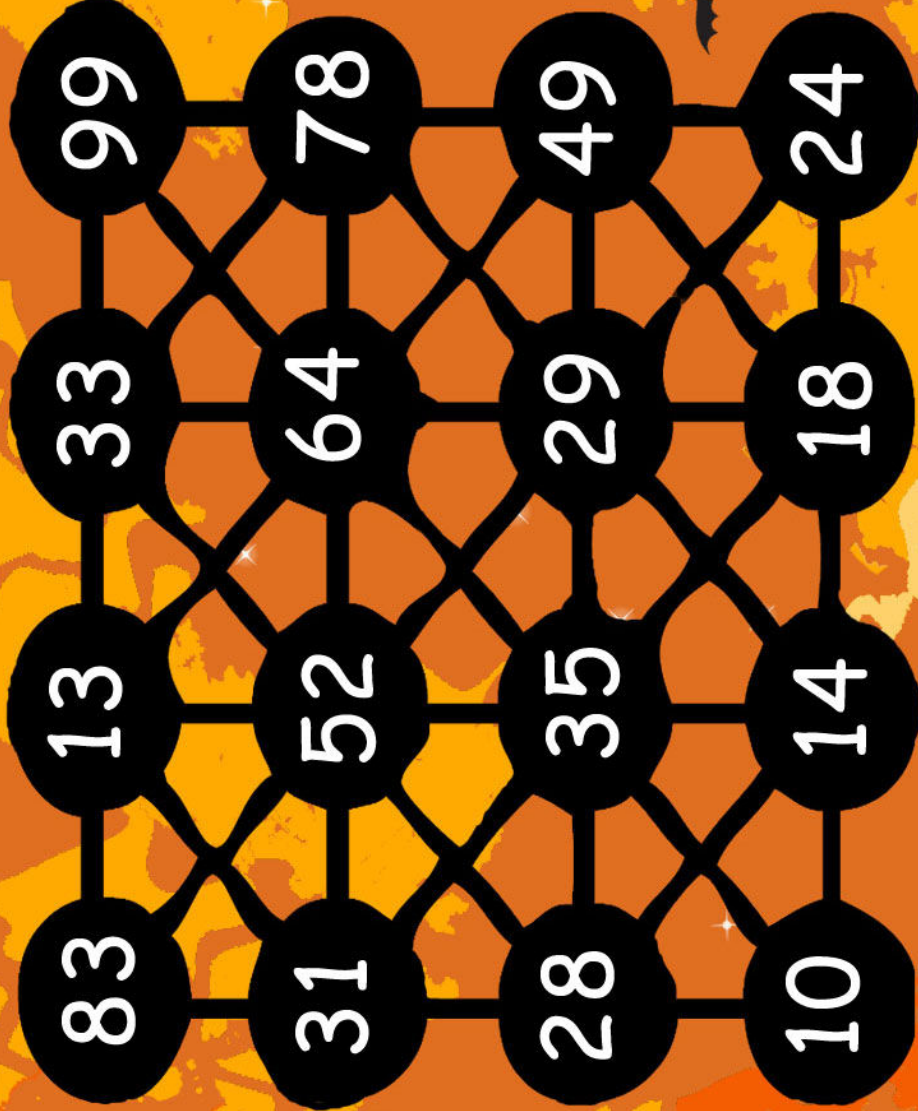
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