

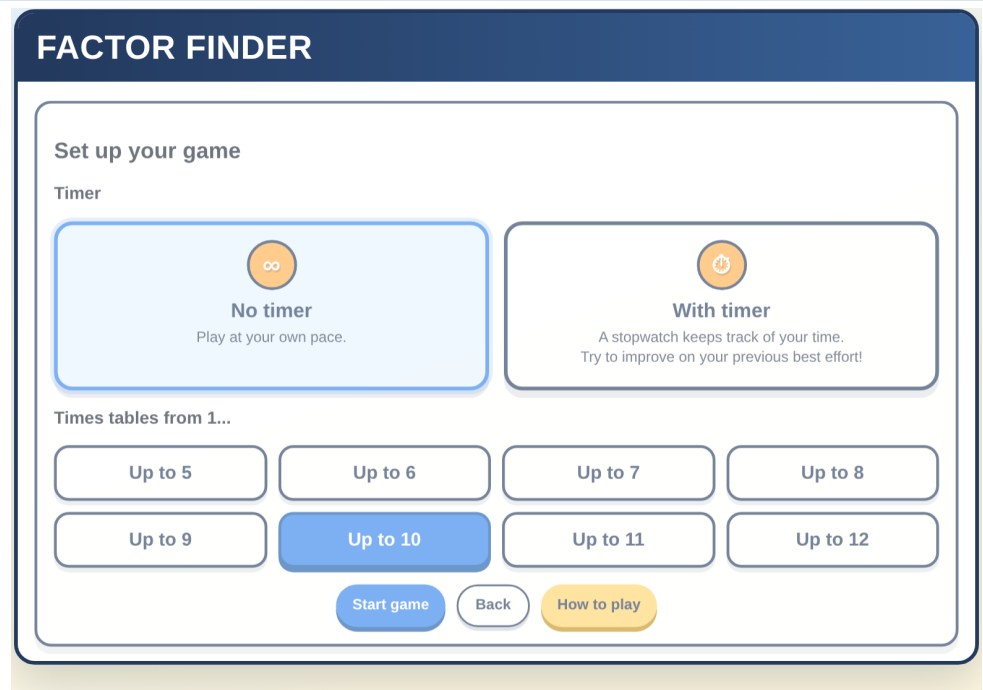
Factor Finder User Guide

Practice multiplication facts in reverse by finding factor pairs on a grid.

Typical multiplication fact practice involves being given a multiplication problem and answering with the product. There is only the one answer that you have either memorized or calculated based on other known multiplication facts. The Factor Finder game reverses that process. You are given the answer and there are potentially many correct ways to produce it!

1. Set up a game

- Click Set up game on the opening screen.
- Choose No timer or With timer. A stopwatch keeps track of your total time in timed mode, but you can still take as long as you need.
- Choose the largest factor for your grid, from 5 up to 12. For example, Up to 8 creates an 8 x 8 grid.
- Click Start game.



The screenshot shows the 'FACTOR FINDER' setup screen. At the top, it says 'Set up your game'. Below this, there are two options for the timer: 'No timer' (with an infinity icon) and 'With timer' (with a stopwatch icon). The 'With timer' option includes a note: 'A stopwatch keeps track of your time. Try to improve on your previous best effort!'. Below the timer options, there is a section for 'Times tables from 1...' with buttons for 'Up to 5', 'Up to 6', 'Up to 7', 'Up to 8', 'Up to 9', 'Up to 10' (which is highlighted in blue), 'Up to 11', and 'Up to 12'. At the bottom, there are three buttons: 'Start game', 'Back', and 'How to play'.

Setup screen: choose timer mode and largest factor.

When you start playing this game, start with medium table sizes and work on accuracy and getting all of your choices correct. Then build up to the largest table sizes. Once you are making few or no errors, you may want to start using the timer. The timer is to help you beat your own best prior effort and not to compare with others. We are each on our own learning journey and speed is not a main goal of mathematics. Use the timer if you think speeding up would be fun.

2. Play the round

- Read the product shown in the FIND THIS PRODUCT box.
- Click any unused cell whose row number times column number equals that product.
- Once clicked, the product is revealed. Correct cells turn green. Incorrect cells turn red and add one missed answer.
- A revealed cell cannot be used again, even if it was revealed by mistake.

Tip: If a product has several factor pairs, any unused matching cell is correct. When the final matching cell for a repeated product is used, all cells with that product briefly pulse together to show their relationship with each other.

FACTOR FINDER

x	1	2	3	4	5	6	7	8
1								
2								
3								
4								
5							35 ✓	
6								
7								
8								

FIND THIS PRODUCT
35

Correct: $5 \times 7 = 35$.

Grid size	8×8
Prompt	2/64
Correct	1
Missed answers	0

RestartNew setup

Game screen: prompt, feedback, score panel, and revealed cells.