Quadratic Rush

**Purpose:** The game helps students identify integers whose products and sum equal given targets. This skill is necessary for factoring trinomials and solving quadratic equations.

**Grade Level/TEKS Reference:** Algebra 1, TEKS 8A, 10E

**Length of time necessary for game or activity:** Varies

**Number of Participants:** 1 person can play at a time (per computer/device); multiple students can play at the same time depending on number of devices available

**Source for Game or Activity:** [https://www.theproblemsite.com/games/quadratic-rush](https://www.theproblemsite.com/games/quadratic-rush)

**Procedure:**

- The purpose of the game is to help students strengthen this skill. Students should play game after they have participated in factoring lesson given by the teacher. During gameplay, students will have 1 minute to solve as many problems as possible. It is recommended that students use pencil and paper.

- Provide student with link/web address.

- Instruct student which difficulty level to choose. The difficulty level can be changed by selecting Game Options (gear symbol). The game is pre-set to Beginner, but you can change to novice. Other options include Proficient, Expert and Hot Shot.

- Once difficulty level is selected, instruct student to select Begin the Game (green arrow).

- When student has solved the problem, instruct him/her to select the first number (blue screen) and then the second number (green screen). If the correct solution is provided, the game will populate a new question. If the incorrect solution is provided, the game with reset the problem to solve again.