- R1 The application shall contain tutorials to reach various mathematical concepts
- R2 The application shall contain games to reinforce learning of mathematical concepts
  - **R2.1** A game shall be composed of a series of randomly generated mathematical problems for the user to solve
    - R2.1.1 Each problem shall be composed of two operands and an operator
  - R2.2 The operator used in generating a game's problems shall be selected by the user
    - **R2.2.1** The possible operators shall be addition, subtraction, multiplication and division
  - R2.3 The games' operands shall be randomly generated
  - R2.4 Each game shall have user-configurable parameters
    - R2.4.1 The game duration shall be configurable by the user
    - R2.4.2 The number of problems shall be configurable by the user
    - R2.4.3 The range of numbers shall be configurable by the user
      - **R2.4.3.1** The specified range shall limit the operands when the operator is addition, subtraction or multiplication
      - **R2.4.3.2** The specified range shall limit the dividend when the game type is division
  - **R2.5** A game shall end when the specified duration or number of questions has been met or if the game is manually ended by the user
- **R3** The application shall generate feedback for the user as games are played
- R4 The application shall store feedback in user profiles
- **R5** The application shall implement a graphical user interface (GUI)
  - **R5.1** The appplication shall show a main menu on initial launch
    - **R5.1.1** The main menu shall contain buttons to user profile, games, and tutorials
  - **R5.2** The GUI shall contain a tutorial section
    - **R5.2.1** The tutorial screen shall display high-level tutorial categories for the user to choose from
    - **R5.2.2** The tutorial categories shall display drop-downs of their contained tutorials upon being tapped
    - **R5.2.3** The user shall be taken to the appropriate tutorial upon tapping a contained tutorial
      - R5.2.3.1 The tutorial shall be a text-based activity with scrolling
      - R5.2.3.2 The user shall be able to navigate back to other menus from the tutorial
  - **R5.3** The GUI shall contain a games section
    - **R5.3.1** The GUI shall provide a game select screen for the user to select from the application's games

- R5.3.1.1 The game select screen shall display categories for the user to chose from
- **R5.3.1.2** The user shall be taken to the game options screen upon tapping a catagory
- **R5.3.2** The GUI shall provide a game options screen for user to configure the game parameters
  - **R5.3.2.1** The game options screen shall display options for the user to manipulate game time duration
  - **R5.3.2.2** The game options screen shall display options for the user to specify the number of questions
  - **R5.3.2.3** The game options screen shall display options for the user to specify whether or not scores will be shown during the game
  - **R5.3.2.4** The user shall be taken to the appropriate game upon tapping a game start button
- **R5.3.3** The GUI shall provide a way for the user to play the application's games
  - R5.3.3.1 The in-game screens shall contain a button to end the current game
- R5.4 The GUI shall contain a section for viewing the user's statistics
  - **R5.4.1** The statistics screen shall display high-level statistics categories for the user to view
    - R5.4.1.1 The high-level categories shall be displayed in a scrollable, horizontal bar
  - R5.4.2 The information within each category shall be presented graphically