

Big Ideas Math®



Human Tic-Tac-Toe

► Materials:

- Paper
- Pencil
- 9 student desks
- 2 bowls
- Enough slips of paper for each student to have one
- Chapter Review exercises
- Coin
- Score chart

► Directions:

Students work in two big groups.

1. Place nine desks in the center of the classroom to make a 3 x 3 matrix. This matrix will serve as an X and O game board for the human tic-tac-toe game.
2. Divide the students into two teams, Team X and Team O.
3. Assign students on each team a number, from one through the highest number of students on the team. Have each student write their number on a slip of paper, fold it, and then place it into the team bowl. There are two bowls — one for Team X and one for Team O.
4. Select an exercise from the Chapter Review. Each student works to solve that exercise. You may select the exercises in numerical order or you can select them randomly.
5. Flip a coin to decide which team goes first.
6. Draw a number from that team's bowl to select a student. The student has the opportunity to answer the review exercise. If correct, the student strategically chooses a seat in the matrix to help them win the human tic-tac-toe game. Their number is not returned to the bowl and the review exercise is not asked again. If incorrect, their turn is over. The student's number is returned to the bowl (so that they may have another chance later in the game) and the review exercise may be asked again later in the game.
7. The game continues with the teams alternating turns at answering a review exercise, and then choosing a position to try to get three in a row or block the other team.
8. A team wins when they have three members sitting in a row. The winning team gets

two points. In the case of a stalemate, each team receives one point.

9. Start a new game and play until all of the review exercises have been correctly answered.

► **Who Wins?**

The team scoring the most points after all of the review exercises have been answered wins.

► **Tips:**

- Students should complete and submit their review exercises prior to the game. This ensures that they have attempted or completed all of the review exercises chosen during the game.
- You may want to make X and O cards and hand the appropriate card to each student who answers a question correctly. The student can then place the card on the desk when they choose their seat.

Score chart:

Team X	Team O