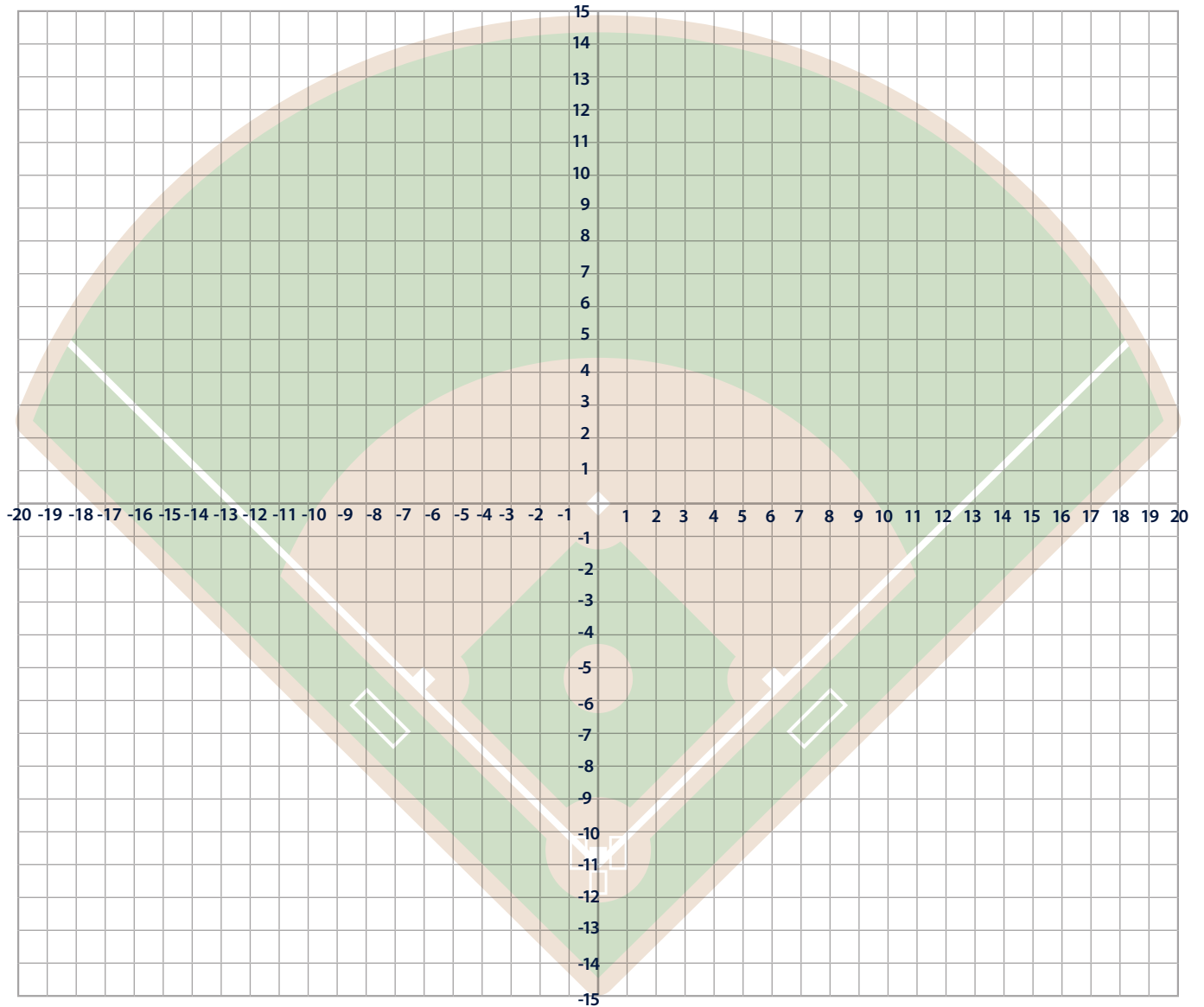**Name:** _____   **Class:** _____

The Field of Play

GRADES 6-8

6th Grade Specific Standards

Plot each player on the coordinate plane. Label their x,y coordinates.

Center Field: _____   Pitcher: _____   Shortstop: _____

Left Field: _____   First Base: _____   Third Base: _____

Right Field: _____   Second Base: _____   Catcher: _____

Name: _____   **Class:** _____

The Field of Play

GRADES 6-8

6th Grade Questions
Use the coordinate plane to determine the absolute value between players.

1. How far would the Second Base player need to throw to the Shortstop?

2. How far would the Third Base player need to throw to the First Base player?

3. How far would the Pitcher need to throw to the Catcher?

4. How far does the Center Fielder need to throw to the Pitcher?

5. If the First Baseman ran to (0, 6) to catch the ball and then needed to throw to Home to make the play, how far would they throw?

6. If the Catcher (-11) was trying to throw out a runner stealing Third, how far would he/she throw?
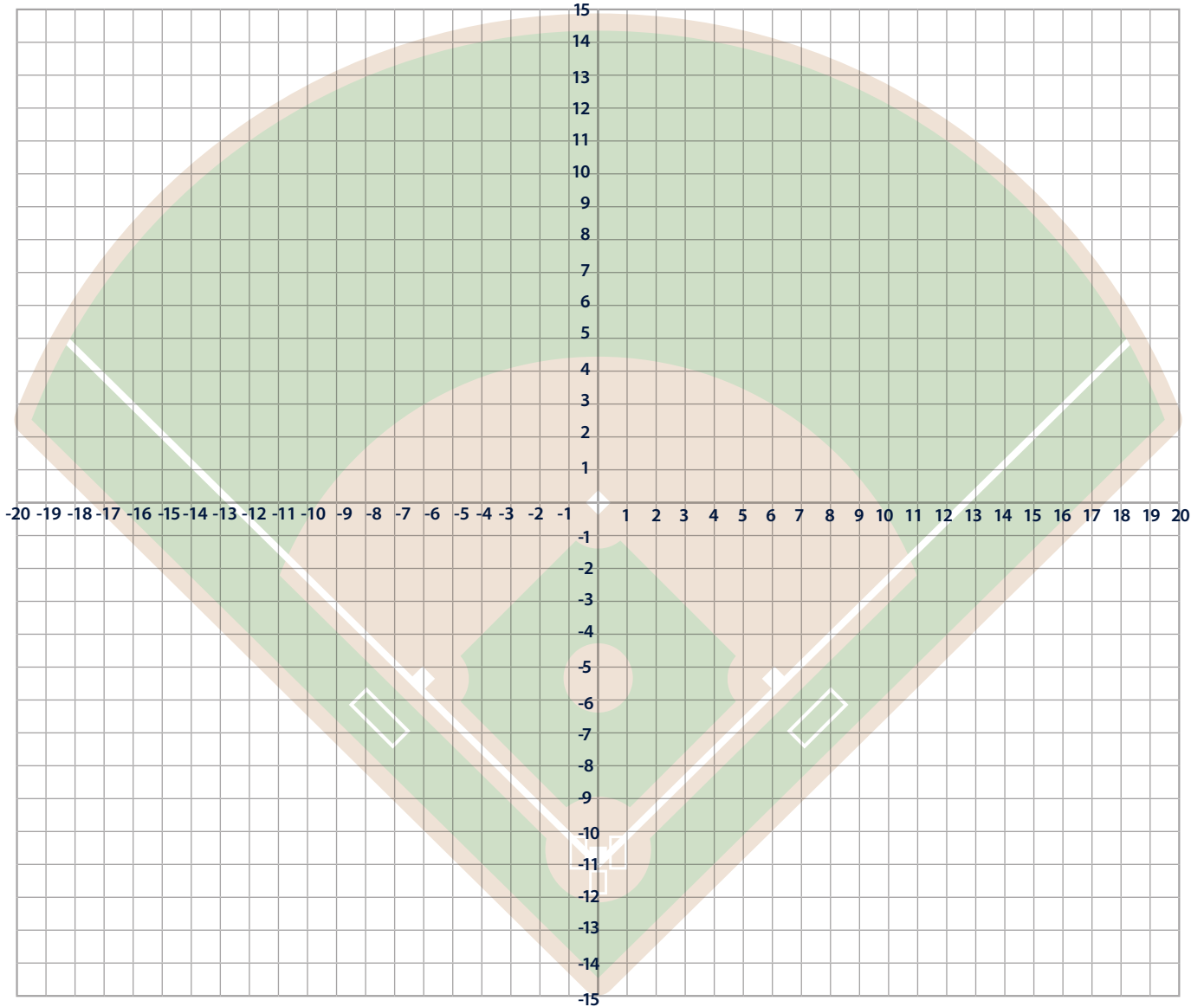
Name: _____ **Class:** _____

The Field of Play

GRADES 6-8

8th Grade Specific Standards

Plot each player on the coordinate plane. Label their x,y coordinates.

Center Field: _____   Pitcher: _____   Shortstop: _____

Left Field: _____   First Base: _____   Third Base: _____

Right Field: _____   Second Base: _____   Catcher: _____

Name: _____ **Class:** _____

The Field of Play

GRADES 6-8

8th Grade Questions

1. Use the distance between the Pitcher and First Base (A), and the Pitcher and Catcher (B). Use the Pythagorean Theorem to calculate the distance between First Base and the Catcher. $A^2 + B^2 = C^2$

2. Use the distance between the Pitcher and Third Base (A), and the Pitcher and Catcher (B). Use the Pythagorean Theorem to calculate the distance between Third Base and the Catcher. $A^2 + B^2 = C^2$

3. Use the distance between the Pitcher and Center Field (A), and the Pitcher and Third Base (B). Use the Pythagorean Theorem to calculate the distance between Third Base and Center Field. $A^2 + B^2 = C^2$

4. Use the distance between the Pitcher and Center Field (A), and the Pitcher and First Base (B). Use the Pythagorean Theorem to calculate the distance between First Base and Center Field. $A^2 + B^2 = C^2$

5. The Catcher moves to (6, -11). Use the distance between First Base and Catcher (A) and First Base and Pitcher (B). Use the Pythagorean Theorem to calculate the distance between the Pitcher and Catcher. $A^2 + B^2 = C^2$

6. The Right Fielder moves to (4, 7) in line with the Second Base player. Use the distance between the Second Base player and the Right Fielder (A) and the Second Base player and the Shortstop (B). Use the Pythagorean Theorem to calculate the distance between the Right Fielder and Shortstop. $A^2 + B^2 = C^2$