

# BASEBALL SHAPES



WHILE WE CALL THE BASEBALL INFIELD A ‘DIAMOND,’  
IT IS ACTUALLY A SQUARE. ALL FOUR SIDES ARE EQUAL IN LENGTH  
AND MEASURE 90 FT. BETWEEN BASES.

## MINOR LEAGUERS

Determine the perimeter of the baseball diamond  
(the sum of the length of all sides)

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Determine the area of the baseball diamond  
(length x height = area)

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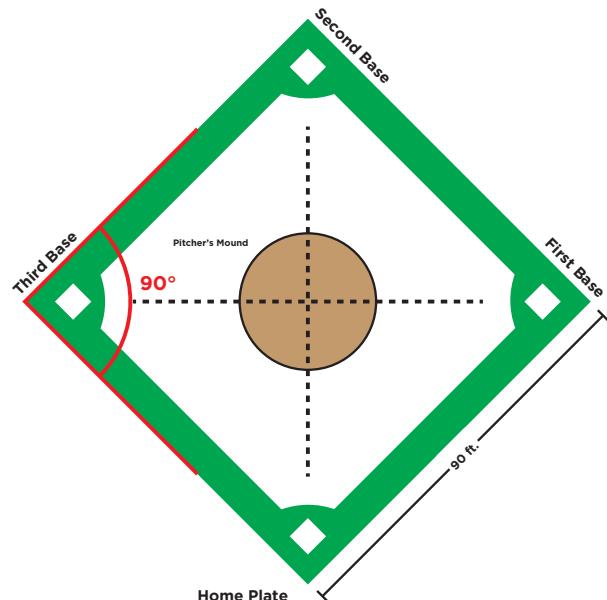
## MAJOR LEAGUERS

If a batter hits a ball to second base, the second baseman would need to throw the ball 90 ft to get the batter out at first. What if the batter hits the ball to third base? We can figure out how far the third baseman would have to throw the ball to reach first base by using the **Pythagorean Theorem**. This formula is an easy way to find the missing length of a side in a right triangle.

Remember: a right triangle is a triangle that contains a right angle. In a right triangle, the longest side is called the **hypotenuse** (C). The Pythagorean Theorem states the square of the hypotenuse is equal to the sum of the squares on the other two sides (A and B).  $C^2 = A^2 + B^2$

The distance from the catcher to second base \_\_\_\_\_

The distance from the pitcher to third base \_\_\_\_\_



## EXTRA INNINGS

Thinking of a baseball field, identify all the **parallel** and **perpendicular** lines. Are there more **acute**, **right**, and **obtuse angles**? Brainstorm a list of shapes found at the ballpark. Are there shapes that are **symmetrical**? Are there **congruent** shapes, sides and angles? Would the game be fair if the baseball diamond was not a regular **quadrilateral**?