



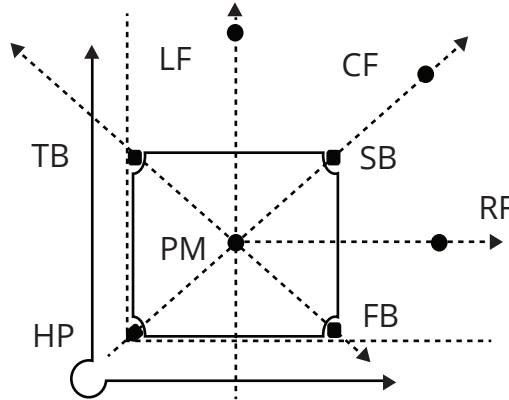
# Baseball Field Angles 2

Name \_\_\_\_\_

Date \_\_\_\_\_

## Angle Examples & Important Information:

- The Third Base, Home Plate, First Base angle is 90 degrees and is written as,  $\angle$  TB,HP,FB
- The First Base, Home Plate, Second Base angle is 45 degrees and is written as,  $\angle$  \_\_\_\_\_
- FB,HP,SB The First Base to Third Base line is at a right angle to the Home Base to Center Field line. The Left Field to Pitcher's Mound line is a right angle to the Pitcher's Mound to Right Field line.
- line The lines around all the bases back to home, make a perfect square.
- $\angle$  TB, PM RF and  $\angle$  LF, PM, FB are each 135 degrees.



**For each exercise, refer to the illustration above and write an angle addition equation**

\* Angle Notation naming is as follows: [  $\angle$  \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ ]

[ Angle symbol (  $\angle$  ), Point on one side line, point of lines intersection, point on the other side line. ]

**EXAMPLE for:** A sum of two angles to equal 135 degrees.

Equation:  $\angle$  TB,PM,CF (90 degrees) +  $\angle$  CF, PM, RF (45 degrees) = 135 degrees

### Exercises:

1. A sum of two angles to equal 135 degrees.

$$\angle \text{TB,PM,SB} + \angle \text{SB,PM,RF} = 135 \text{ degrees.}$$

2. A sum of two angles to equal 90 degrees.

$$\angle \text{TB,PM,LF} + \angle \text{LF,M,SB} = 90 \text{ degrees}$$

3. A sum of two angles to equal 180 degrees.

$$\angle \text{HP,PM,LF} + \angle \text{LF,PM,FB} = 180 \text{ degrees.}$$

### Connections:

Considering exercises 1 through 3, what does it mean to "add" angles?

Answers will vary, but discussion yields insight into student understandings which can be used for future lesson planning.