1. How many combined runs were scored in the game?

2. How many combined runs and hits did the Padres have?

3. How many combined runs and hits did Padres and Giants have?

4. What is the area of infield?

5. What is the distance from 1st base to 3rd base?

6. What is the perimeter of the base path?

7. What is the perimeter of the outfield wall if the outfield wall is 40% of a circle and radius is 225?

8. What is the perimeter of entire field?

9. If a runner takes off from 2nd base at 22 ft/sec, and at the same time the first baseman throws to 3rd base from 1st base a baseball at 88ft/sec, is the runner safe or out? By how much?

10. If runner on second tags up and runs to 3rd base at 22ft/sec, and right fielder throws ball to 3rd base from 350 feet away at 88ft/sec is the runner safe or out? By how much?

11. A batter has 400 at bats for the season, and his batting average is .350, how many hits did he have?

12. How many hits would he need to hit .400 with 400 at bats?

13. If Fernando Tatis Jr. can run 750 feet in 25 seconds how many feet can he run in one second?

14. How many outs are recorded by the Padres in a 9-inning game that has the home team batting through all nine innings?

15. How many outs are recorded by both teams if the home team bats through all nine innings?

16. How many outs are recorded by Padres in a 3-game series if the home team bats through all nine innings?

17. If lemonade costs $6.25, a popcorn costs $5.75, and peanuts cost $4.50 what is the total?
1. 13
2. 19 \((12+7)\)
3. 34 \((6+9+7+12)\)
4. Area of Square = \(X^2 = 90^2 = 8100\text{ft}^2\)
5. \(A^2\) (squared) + \(B^2\) (squared) = \(C^2\) (squared) = 8100ft + 8100ft = \(C^2 = 16,200\) = \(\sqrt{16,200} = C = 127.3\)
6. 90+90+90+90 = 360ft
7. \(C = 2 \pi r = 2 \pi (225) = 1413.7\) then take 40%, so \((1413.7)(.4) = 565.5'\)
8. 90+200+565.5+200+90 = 1145.5 feet
9. Runner 90ft/22ft per second = 4.1 seconds
   Throw 127ft/88ft per second = 1.4 seconds
   Out! by (4.1 sec - 1.4sec) = 2.7 seconds
10. Runner 90ft/22ft per second = 4.1 seconds
    Throw 350ft/88ft per second = 3.97 seconds
    Out! by (4.1 sec - 3.97sec) = .13 seconds
11. Hits/At bats = AVG = \(x/400 = 350\)
    \(400 (x/400) = (.350) 400 = x = 140\) hits, so 140/400 = .350
12. 400 \((x/400) = (.400) 400 = x = 160\) hits, so 160/400 = .400
13. 750/25 = 30 ft per second
14. 9 innings x 3 outs = 27 outs total
15. 9x3x2 = 54 outs total
16. 9x3x3 = 81 out total
17. $6.25 + $5.75 + $4.50 = $16.50