



# MATH PROBLEMS

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1. If Machado's baseball bat weighs 40 ounces (oz), how many pounds (lbs) does his bat weight?
  2. The average number of baseballs used in a 9-inning game is 10 dozen. How many balls is that?
  3. If a dozen balls cost \$95, what is the cost of each ball?
  4. What is the average cost of baseballs per 9-inning game?
  5. Each team plays 81 home games, so how much does each team pay for baseballs the whole season?
  6. Since each of 30 MLB team plays 162 games per season, how many baseballs are used per season?  
*Remember, 162 games means 81 home games per team*
  7. What is the cost of baseballs for all MLB for one season?
  8. If Tatis hits one home run every 3 games in the 2020 season, how many home runs will he hit?
  9. If the Padres hit 1.5 home runs every game for the season, how many will they hit as a team?
  10. If the Padres hit 130 home runs at Petco, and 113 on the road, what percentage of home runs were hit at home?
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# MATH ANSWERS

**1. 2.5 lbs**

$$40 \text{ oz} / 16 \text{ oz} = 2.5 \text{ lbs}$$

**2. 120 Baseballs**

$$1 \text{ dozen} = 12 \text{ balls, so } 10 \times 12 = 120 \text{ baseballs}$$

**3. \$7.92**

$$\$95 / 12 \text{ baseballs} = \$7.92 \text{ per ball}$$

**4. \$950.40**

$$\$7.92 \times 120 \text{ baseballs} = \$950.40$$

**5. \$76,982.40**

$$81 \text{ games} \times 120 \text{ baseballs} \times \$7.92 = \$76,982.40$$

**6. 291,600 Baseballs**

$$30 \text{ teams} \times 120 \text{ baseballs} \times 81 \text{ home games} = 291,600 \text{ baseballs}$$

**7. \$2,309,472**

$$291,600 \times \$7.92 = \$2,309,472$$

**8. 54 Home Runs**

$$162 \text{ games} / 3 \text{ home runs per game} = 54 \text{ home runs}$$

**9. 243 Home Runs**

$$162 \text{ games} \times 1.5 \text{ home runs} = 243 \text{ home runs}$$

**10. 53.5%**

$$130 + 113 = 243 \text{ total home runs, so } 130/243 = 53.5\% \text{ of Home Runs Hit at Home}$$