MATH SUPERSTARS – 5

Saturn, X
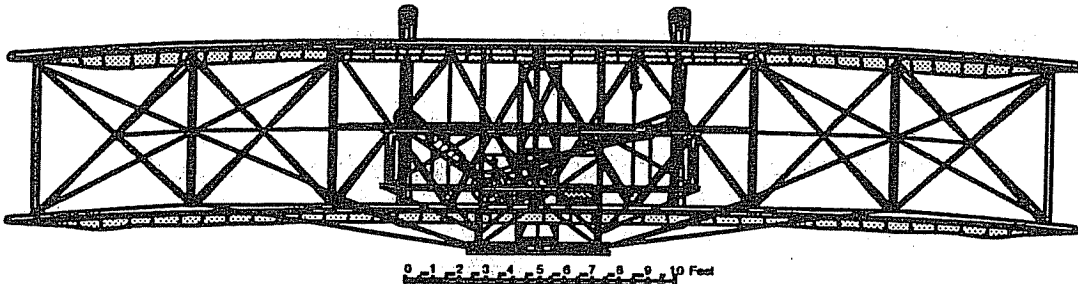
Name: _____

(This shows my own thinking.)

★★ 1. The Wright Brothers each had two flights on that famous day at Kitty Hawk. Orville flew 120 ft. and 585 ft. Wilbur flew 340 ft. and 852 ft. What was the average distance flown that day? At that rate, how many flights would it have taken them to fly a mile? (rounded to the nearest whole number)

Average distance: _____

Flights to travel a mile: _____

★★ 2. Use the scale underneath the plane above to find its wingspan, tip to tip. Answer: _____ ft.

★★★★ 3. The regular season for professional baseball is 162 games. A player was at bat 3 times in each game, and he played in $\frac{2}{3}$ of the games.

a. How many times was the player at bat during the season?   Answer : _____

b. The player hit 0.250, which means he got a hit 25% of the time, or once in every four at bats. How many hits did he get during the year?

Answer: _____

★★ 4. John needs to build a fence around his yard, which is 96 ft. wide and 120 ft. deep.

a. How much fence must he buy to enclose all four sides? Answer : _____

b. If the fence costs $12.87 for an 8 ft. length, how much will the entire fence cost before the tax is added?

Answer: _____

★★ 5. A bag has 6 marbles in it. Each marble is either red, blue, or green. What is the least number of marbles that you must pull out of the bag to be sure you have two marbles the same color?

Answer: _____

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★ 6. You will be given a problem like the one below when you turn in your paper. To earn your star, you'll have to estimate the answer in your head. Make up and practice some problems like this one.

Answer later: _____

> The store where Janice and Kanisha shop is having a sale on summer clothes. Each of the girls wants to buy 2 pairs of shorts and three tops. If shorts and tops are on sale for $11.50 each, what is the best estimate of how much each girl will spend? Circle your answer.
>
> a. $40   b. $50   c. $60   d. $120
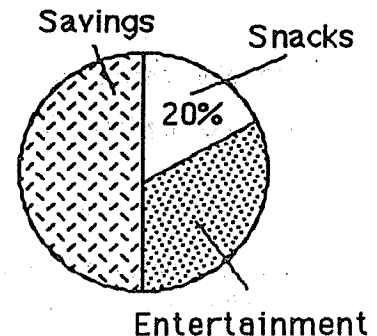
★★ 7. What whole number does N stand for if the number sentence below is true?

$(N + 5) + (3 \times 2) = 18$

Answer : _____

★★★ 8. Danny earns $5 a week. Use the graph to answer the questions below.

a. How much money does Danny spend on snacks? _____

b. How much money does Danny save? _____

c. How much money does Danny spend on entertainment? _____

Savings   Snacks
20%
Entertainment

★★ 9. Franklin School has 3 boys for every 4 girls in the fifth grade. There are 140 students in the fifth grade.

a. How many are boys? _____   b. How many are girls? _____