

SUNSHINE MATH - 5
Saturn, XII

Name: _____

(This shows my own thinking.)

- ★★★ 1. Bob's garden is a 20 ft. x 10 ft. rectangle. Bob plants tomatoes in half of his garden; then radishes in $\frac{1}{4}$ of the remainder; then cucumbers in $\frac{1}{2}$ of what is left. The last area is planted in peppers. What part of the garden is planted in peppers?

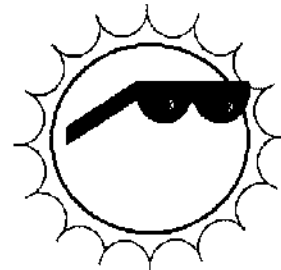
(Hint: draw a picture)

Answer : _____

- ★ 2. St. Augustine was founded in 1565 by Pedro Menendez de Avites. The oldest house in that city still standing was built in 1703. How old is this house now?

Answer: _____

- ★★ 3. For your weekend at the beach, you have packed one pair each of red shorts, blue shorts, and tan shorts. You have also packed a white shirt, and a red shirt. How many outfits can you make with these clothes?



Answer: _____

- ★★★ 4. A number n is divided by 3 and the result is multiplied by 7. Then 6 is subtracted from the result to give 36. What is the original number n ?

$$[(n \div 3) \times 7] - 6 \text{ gives } 36. \text{ What is } n ?$$

Answer : $n =$ _____

- ★★ 5. Which fraction is closest in value to 1? Circle the correct answer.

a. $\frac{3}{5}$ b. $\frac{2}{3}$ c. $\frac{1}{2}$ d. $\frac{7}{10}$

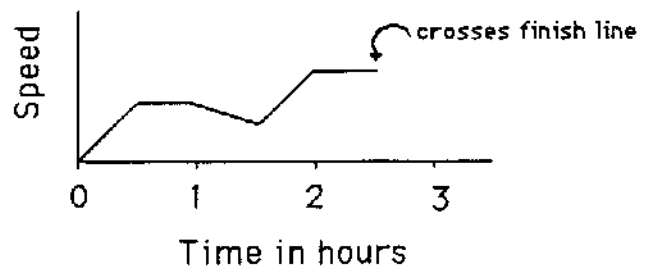
- ★★ 6. There are 5,280 feet in a mile. If an airplane is flying at 35,000 feet above sea level, how high is it? Bubble in the correct choice.
- 7 miles high
 - a little less than 7 miles high
 - a little more than 7 miles high

- ★★★ 7. Juan entered a bike race in which he was to ride 45 miles, stopping at certain intervals during the race to check in with the scorers. He checked in 9 times before he crossed the finish line. If the intervals were equally spaced throughout the race, how far apart were they?



Answer: The intervals were spaced every _____ miles.

- ★★★★ 8. The graph shows Juan's speed during the race, not counting when he stops at the checkpoints. Answer the questions below the graph.



- a. About how long did Juan take to finish the race? Answer: _____
- b. What can you say about Juan's speed during the first half hour of the race?
 Answer: _____
- c. What can you say about Juan's speed during the second half hour of the race?
 Answer: _____
- d. During what part of the race was Juan going the fastest?
 Answer: _____