

MATHEMATICAL PROBLEMS

1. Your class is taking a field trip to SVAP
 - a.) Write a story problem that identifies the number of students and the price per student
 - b.) Identify the total amount of money required to purchase access to the Park for all students. Show your computations that allowed you to determine this amount.
 - c.) Identify the time your group will arrive at the Park and the time the Park closes. Assuming your group stays until the Park closes how many hours will each student spend at the Park? Show your computations that allowed you to determine this amount.
2. The SNOWBALL Ride has _____ "snowballs" and each will seat a maximum of _____ guests. Assuming the ride is full how many people are on the ride? Show your computations that allowed you to determine this amount.
3. The Carousel is a balance of motion and force with the horses completing revolutions in the same amount of time even though there are different "rings". Assume for this problem a horse on the inner circle makes a complete circle in _____ seconds and a horse on the outer ring makes a complete circle in _____ seconds, how often if at all do the horses meet? Show your computations that allowed you to determine this answer.
4. The DING'EM DODGE'EM BUMPER CARS has _____ cars and each car seats _____ guests. The ride lasts for _____ minuets and _____ seconds. It takes _____ minuets to unload and reload the ride. You are 25 feet back in the line. How long must you wait to ride? Show your computations that allowed you to determine the answer.
5. You are visiting SVAP and have 3 hours to enjoy the rides and animals.
 - a) Identify the Rides and Animal exhibits by number from the map that you will visit.
 - b.) Assuming you spend the same amount of time at each exhibit how much time will you spend at each?
 - c.) Show your computations that allowed you to determine your answer.
6. The SVAP FIRE ENGINE travels _____ mph and has a route that is _____ miles and takes _____ minuets to travel one route. If you stay on the ENGINE for _____ routes how long are you on the ENGINE? Show your computations that allowed you to determine this answer.
7. You decide to take a break from visiting the various amusements at the Park and have lunch. You have \$20.00 to spend. Identify each item you will purchase to spend as much of the \$20.00 as possible. Identify each item purchased and the amount deducted from the \$20.00 for each item.

8. KIDDELAND'S MIDGE-O-RACERS has _____ "RACERS" with each seating _____ guests. .
- If the ride is at full capacity of all RACERS how many guests are on the ride? Show your computations that allowed you to determine the number.
 - If the ride is at 50% capacity how many guests are on the ride? Show your computations that allowed you to determine this number.
9. If 1,248 guests came to the Park today and 328 went immediately to the Animal exhibits how many guests would remain in the Amusement ride area of the Park? Show your computations that allowed you to determine this number.
10. SVAP has a wonderful gift shop filled with delicious treats and mementos of Santa's Village.
- Identify three edible treats you will take home and two non-edible gifts that you are taking home.
 - List the price of each item you have selected
 - Total the amount of all five items you have selected
 - Compute a sales tax on the items at 6% and add this to your five item total.
- Show your computations that allowed you to determine the amount to add for tax and the final total.

GRAPH PROBLEM

- The WACKY WORM rollercoaster goes to a height of _____ feet, pauses then plunges _____ feet, reaching a speed of _____ mph. You spin through a _____ foot vertical loop, _____ degree loops, ... ADD NUMBERS AND INFO FROM WACKY WORM
Use integers to describe your height during the ride.
- Record the highest drop for each ride and plot each on a graph.
 - XTREME ELEVATION
 - SUPER CYCLONE
 - WACKY WORM