

# Planning a Trip

Jose Martin Elementary School is planning a trip for its graduating class. There are 200 fifth graders in their elementary school. The principal has determined that approximately 3 percent of the students are absent on trip days. Approximately 5 percent of the students will not turn in their permission slips for various reasons. Therefore, 8 percent of the students will not go on the trip.

Ms. Penelope Bisee Baudy is the teacher in charge of the trip. She is working with three of the students from the graduating class. They have already made an announcement to the fifth graders and handed out permission slips. They also made 5 posters and hung them around the school.

## Part I

1. If there are 200 students and 3% of them will be absent on trip day, how many students will not come to school on trip day?
2. If there are 200 students and 5% of them will not bring their permission slips for the trip, how many students will not have their permission slips for the trip?
3. Once the students who will be absent and the students who will not return their slips have been removed, how many students will actually go on the trip?
4. How did you find the answer to problem number three? What steps did you follow?



# Planning a Trip *(cont.)*

## Part II

The principal gave Ms. Baudy a trip budget of \$500. She decided to buy a small gift for each one of the students. Since she knew that not all of the students would attend the trip, she planned on buying enough gifts for 190 people.

1. One of the students who is helping to plan the trip found a T-shirt company that would sell them 190 T-shirts with the school's name printed on the front. The company would charge them \$400 for all of the T-shirts. What percentage of the trip budget would this use?
2. The principal gave Ms. Baudy a mail-order catalog that had several interesting choices. She really liked the small lapel pins that said, "Junior High Students Rule!" In order to buy 190 of the pins, she would have to spend \$450 dollars. How much of her trip budget would this use?
3. Ms. Baudy was at the mall and found a silver-plated pen and pencil set. The merchant said that he could sell her 95 gold-plated sets and 95 silver-plated sets for \$250. If Ms. Baudy took this deal, what percentage of the students would receive a gold-plated set? How did you find your answer?
4. A student helper found a printing shop that would sell them 190 large mugs with the school's name printed on the side. The printer would write the school's name in blue on 63 of the mugs. The rest of the mugs would have gold lettering. Approximately what percentage of the mugs would have blue lettering?
5. If the printer put gold lettering on 70 percent of the mugs, approximately how many mugs would have gold lettering?



# Planning a Trip *(cont.)*

## Part III

It took Ms. Baudy and her helpers a while to figure out what the price of the trip should be. They had to consider a number of things. They spent the most time trying to choose a bus company. The following problems explain their choices.

1. They figured out that each student would have to pay \$4.00 for a bus company to take the group to and from the trip site. If the total price of the trip per student was \$7.00, what percentage of the \$7.00 went toward the buses?
2. The second bus company that Ms. Baudy contacted wanted to charge each student \$5.00 for roundtrip service. If the total price of the trip per student was \$7.00, approximately what percentage of the trip would go towards the price of the bus?
3. The Cheap and Loving It Bus Company wanted to charge each student \$3.50. If the total price of the trip per student was \$7.00, what percentage of the total price of the trip would go towards the bus?
4. Ms. Baudy decided to collect \$19.95 from the students. If \$6.65 was for the buses, approximately what percentage of the money that was paid for the trip went towards the buses?
5. If \$19.95 was collected from each student for the trip, and park entrance fee \$13.30 was spent park entry for 190 people, what percentage of the money was spent on the park entrance fee? How did you find this answer? What steps did you follow?



# Planning A Trip *(cont.)*

## Part IV

### Amusement Park Activities

#### Ticket Price Guide

Activities	One Ticket	Two Tickets
Horseback Riding	\$3.00	\$5.00
Monster Roller Coaster	\$2.50	\$4.50
Monorail	\$2.50	\$4.00
Canoe Rides	\$2.50	\$4.00
Underwater Light Show	\$1.50	\$3.00

1. If a student paid for two horse backriding tickets at one time, what amount of money would they save over buying two tickets at different times?
2. By purchasing two horse backriding tickets at one time, what percentage of money would a student save on each ticket?
3. How did you calculate your answer?
4. By purchasing two water Underwater Light Show tickets at one time, how much money will a student save on each ticket?

