**Equation Word Problems**

Define the variable, write an equation, then solve the equation to find the answer to the question.

1. On Monday, 255 students went on a trip to the zoo. All 5 buses were filled and 5 students had to travel in cars. How many students were in each bus ?

P: # of people on each bus

$5p + 5 = 255$ ← total # of students

# of buses    #students per bus    # of students who traveled by car

2. Dan bought seven new baseball trading cards to add to his collection. The next day his dog ate half of his collection. There are now only twenty - nine cards left. How many cards did Dan start with?

3. Nancy spent half of her allowance going to the movies. She washed the family car and earned seven dollars. What is her weekly allowance if she ended with sixteen dollars ?

4. Oceanside Bike Rental Shop charges 15 dollars plus 6 dollars anhour for renting a bike. Benny paid 45 dollars to rent a bike. How many hours did he pay to have the bike checked out ?

5. Sally had 189 dollars to spend on 8 books. After buying them she had 13 dollars. How much did each book cost ?

6. Tim sold half of his comic books and then bought 9 more. He now has 16. How many did he begin with ?

7. Fred bought a soft drink for three dollars and seven candy bars. He spent a total of thirty - one dollars. How much did each candy bar cost ?

8. On Monday, 192 students went on a trip to the zoo. All 4 buses were filled and 8 students had to travel in cars. How many students were in each bus ?

9. Sam bought a soft drink for 3 dollars and 9 candy bars. He spent a total of 39 dollars. How much did each candy bar cost ?

10. Oceanside Bike Rental Shop charges 13 dollars plus 9 dollars an hour for renting a bike. Jessica paid 67 dollars to rent a bike. How many hours did she pay to have the bike checked out ?