Objective: REVIEW

Day 2

II. Using Proportions to Solve Percent Problems

A. Set up and solve a proportion to solve each problem.

1. Mr. Green works as the art teacher at Hamburg Summer Day Camp. Six hundred campers participate in the camp every day. Yesterday Mr. Green helped 6 campers on an art project. What percent of the campers did Mr. Green help yesterday?

2. Jonah is saving up to purchase a small flat screen television for his bedroom. He has saved $80, which is 64% of the total cost of the television. How much does the television cost?

3. Ben saved $75 over the summer from his part-time job. He withdrew 40% of the money to buy new clothes. The rest of the money he kept in his bank account. How much money did Ben spend on new clothes?

4. Samantha raises animals and trains them to appear in Hollywood movies. Currently, 23 of her penguins are appearing in a film about global freezing. That is 92% of the penguins Samantha has raised. How many penguins has she raised?

5. Mr. Ivey teaches dance at the middle school. His classes are 90 minutes long, and he spends 94% of class time teaching strength and conditioning. How many minutes do Mr. Ivey's students spend on strength and conditioning in each class?

6. Christopher plays quarterback for a neighborhood football team. During his team's first game, he executed 60 plays, 42 of which were successful. What percent of Christopher's plays were successful?

B. Set up and solve a proportion to solve each problem.

1. What is 78% of 50?

2. What is 54% of 450?

3. The number 110 is what percent of 500?

4. The number 21 is what percent of 75?

5. The number 88 is 44% of what number?

6. The number 57 is 76% of what number?

C. Solve each problem.

1. Carlos purchased an antique chair for $15. He later sold the chair for $27 to an antique dealer. What was the percent markup of the chair?

2. Lamar purchases comic books at garage sales and marks them up 75% before reselling them to comic book dealers. If Lamar purchases a comic book at a garage sale for $4, how much will he charge the comic book dealer for it?

3. You want to leave a tip for a meal that costs $17.95. If all you have is $3.00, what percentage tip will you be able to leave?

4. Jeremy bought a souvenir while on vacation. The item cost $22, but the total bill was $23.43. What percent was the sales tax?

5. Shalinda wants to leave an 18% tip for her meal. If her meal cost $25.10, what should be the total she pays, including the tip?

6. Karen buys a sweatshirt for $30. The sales tax in her state is 7%. What is the total amount Karen will pay for the sweatshirt, including sales tax?

7. If a store marks up the price of an item by 45% and sells it to customers for $58, what was the original price the store paid for the item?

8. Lin paid $3.30 in sales tax on an item that cost $60. What percent sales tax did he pay?

9. Yolanda always tips her hair stylist 22% of whatever her services cost. On her most recent trip to her hair stylist, the services Yolanda received cost $150. What amount should Yolanda tip her hair stylist?

10. The Fishers ate out at a restaurant and paid a total of $68.22, including the tip. If the Fishers tipped 20%, what was the cost of the meal?