

Lesson 3 Problem-Solving Practice

Writing Equations

1. Toni spent the day at the mall. At the end of the day, Toni found that she spent a total of \$107.50 on lunch, clothes, and school supplies. Toni spent an equal amount on clothes and school supplies. If Toni spent \$10.50 on lunch, write an equation that can be used to find how much Toni spent on clothes and school supplies.

2. John and Belinda played nine holes of golf. John's score was 10 strokes less than two times Belinda's score. If John's score was 54 strokes, write and solve an equation to find Belinda's score.

3. The New Orleans Saints scored 2 more points than three times the points scored by the Pittsburgh Steelers. If the New Orleans Saints scored 32 points, write and solve an equation to find the number of points scored by the Pittsburgh Steelers.

4. All of the girls in Danielle's cabin at camp are the same age. Their counselor is 3 times their age. Danielle's age and her counselor's ages add up to 28. Write an equation that can be used to find the ages of Danielle and her counselor.

5. Three businesses donated money to charity. The chart shows the pledges made by the businesses.

Business	Amount Pledged (in millions)
Business A	x
Business B	
Business C	

Business B pledged \$20 million less than twice the amount pledged by Business A. Business C pledged \$200 million less than twice the amount pledged by Business B. If x represents the amount pledged by Business A, write expressions to show the amounts pledged by Business B and Business C in terms of x .

6. Refer to the information in Exercise 5. The combined pledges of Business A, Business B, and Business C totaled \$1035 million. Write an equation that can be used to determine how much each business pledged.