1. Find a number such that one-half of the number is the same as 12 more than one-fifth of the number.

2. Suppose that the width of a rectangle is 3 centimeters less than two-thirds of its length. The perimeter of the rectangle is 114 centimeters. Find the length and width of the rectangle.

3. Lou is paid 1 ½ times his normal hourly rate for each hour he works over 40 hours in a week. Last week he worked 44 hours and earned $483. What is his normal hourly rate?

4. Annilee's present age is two-thirds of Jessie's present age. In 12 years, the sum of their ages will be 54 years. Find their present ages.

5. Find the discount sale price of a $72 item that is on sale for 35% off.

6. The owner of a pizza parlor wants to make a profit of 70% of the cost for each pizza sold. If it costs $7.50 to make a pizza, at what price should each pizza be sold?

7. A retailer has some jackets that cost her $45 each. If she sells them for $83.25 per jacket, find her rate of profit based on the cost.

8. Jim bought a pair of jeans at a 25% discount sale for $45. What was the original price of the jeans?

9. Solve $i = Prt$ for i , given that $P = \$5000$, $r = 6\%$, and $t = 3\frac{1}{2}$ years.

10. Solve $A = \frac{1}{2}Bh$ for B.