



## Application\_Grade-6\_An Introduction to Algebra

### Statement Problems on One-variable Linear Equations

1. In a room containing 45 students there were twice as many girls as boys. How many of each were there?
2. Aaron had 7 times as many sheep as Beth, and both together had 608. How many sheep had each?
3. A man bought a cow and a calf for 990 dollars, paying 8 times as much for the cow as for the calf. what was the cost of each?
4. Jamal and Moshe began a business with a capital of 7500 dollars. If Jamal furnished half as much capital as Moshe, how much did each furnish?

5. A lab technician cuts a 12 inch piece off tubing into two pieces in such a way that one piece is 2 times longer than the other.

6. A 6 ft board is cut into two pieces, on twice as long as the other. How long are the pieces?

7. An eight ft board is cut into two pieces. One piece is 2 ft longer than the other. How long are the pieces?

8. An electrician cuts a 30 ft piece of wire into two pieces. One piece is 2 ft longer than the other. How long are the pieces?



9. The total cost for tuition plus room and board at State University is 2,584 dollars. Tuition costs 704 dollars more than room and board. What is the tuition fee?

10. The cost of a private pilot course is 1,275 dollars. The flight portion costs 625 dollars more than the ground school portion. What is the cost of each?