

Study Guide Solutions

Mixture Word Problems

1. To obtain a 300 ml of a 5% hydrogen peroxide, a mixture of 100 ml of 7% and 200ml of 4% is needed.
2. The pharmacist will need 14 grams of the 30% and 16 grams of the 75% cough syrup.
3. The chemist must mix 75 L of the 60% alcohol solution and 25L of the 20% alcohol solution to obtain the 100L of 50% alcohol solution.
4. 150 oz of the 50% chocolate topping must be added to create the 75% chocolate topping.
5. 20 gallons of 15% acid solution must be mixed.

Consecutive Integer Word Problems

1. The three consecutive integers are 12, 13, and 14.
2. The three consecutive even integers are 52, 54, and 56.
3. The three consecutive integers are 87, 88, and 89.
4. The three consecutive odd integers are 21, 23, and 25.
5. The two consecutive odd integers are 101 and 103.

Area Word Problems

1. The soccer field has an area of 5500ft^2 .
2. One wall has an area of 63ft^2 . Four walls have an area of 252ft^2 . You will not have enough paint.
3. The area of each triangle is 36ft^2 .
4. The area of the circular window is 12.57ft^2 .
5. The area of the geometric shape is 84cm^2 .