

## Mixture Problems - ANSWERS

1. How many gallons of a 3% acid solution must be mixed with 60 gallons of a 10% acid solution to obtain an acid solution that is 8%?

Solution: We need to mix 24 gallons of the 3% solution with 60 gallons of the 10% solution.

2. How many gallons of each of a 4% and an 11% salt solutions should be mixed to obtain 35 gallons of a 7% solution?

Solution: We need to mix 20 gallons of the 4% solution with 15 gallons of the 11% solution.

3. How much water should we add to 20 gallons of a 15% acid solution to dilute it to a concentration of 12%?

Solution: We need to mix 5 gallons of water with 20 gallons of the 15% solution.