

## Answer on Question #81748 – Math – Algebra

### Question

A pharmacist needs to make 20 cc of a 0.05% steroid solution to treat allergic rhinitis. How much of a 0.08% solution and a 0.03% solution should be used?

### Solution

X-number of cubic centimeters 0.08% solution

20-X-number of cubic centimeters 0.03% solution

$$0.08*X+0.03*(20-X)=0.05*20$$

$$0.08*X+0.6-0.03*X=1$$

$$0.05*X=0.4$$

$$X=0.4/0.05$$

$$X=8$$

$$20-X=20-8=12$$

**Answer:** 12 cc 0.03% solution; 8 cc 0.08% solution.