

Solving Mixture and Interest Problems

- A. Ziggy's Famous Yogurt blends regular yogurt that is 3% fat with its no-fat yogurt to obtain low-fat yogurt that is 1% FAT. Find how many pounds of regular yogurt and how many pounds of no-fat yogurt should be mixed to obtain 60 pounds of low-fat yogurt.

Unknowns:	T = pounds of 3%	Equations:	T + N = 60
	N = pounds of no fat 0%		.03T + .0N = .01(60)

- B. Find how many milliliters of 4% acid solution and how many milliliters of a 10% acid solution must be mixed to obtain 54 ml of a 6% solution.

Unknowns:	F = milliliters of 4% acid	Equations:	F + T = 54
	T = milliliters of 10% acid		.04F + .10T = .06 (54)

