3.3 Notes: More Word Problems

Business Problems

A company reimburses its salesperson \$208 for a business conference plus \$.54 per mile driven. How many miles did she drive if the total reimbursement was \$244.18?

$$\frac{208 + .54x - 208.00}{.54x - 36.18}$$

$$\frac{.54}{.54} = \frac{.54}{.54}$$

Formulas (on p. 187)

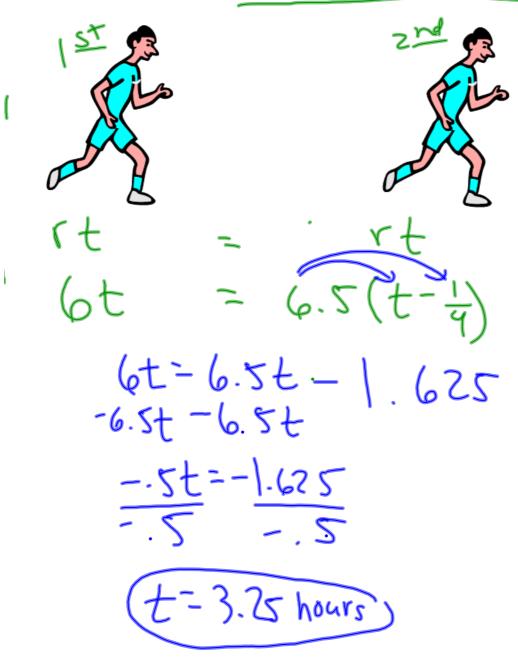
In your savings account, you earned \$46.08 in interest. If you invested \$640 for 6 months, what was your interest rate?

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$$T = Pr + \frac{1}{1} + \frac{1}{1$$

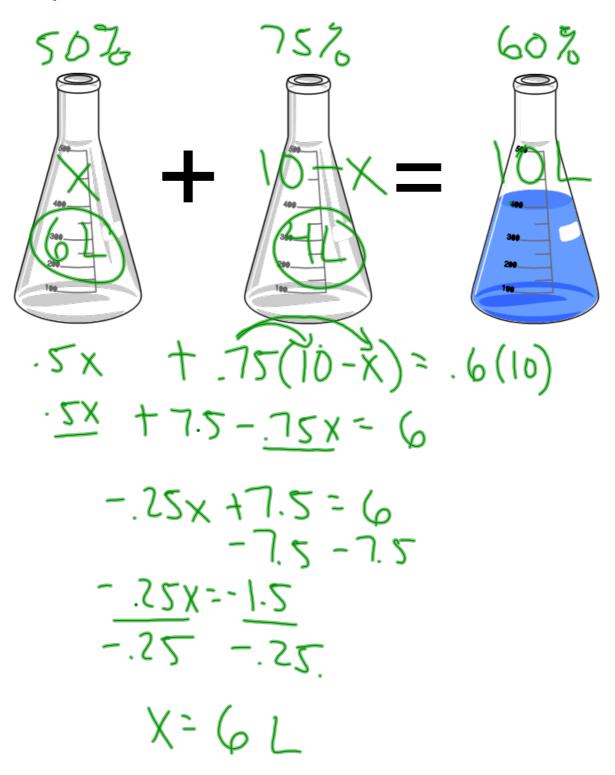
Rate Problems

One jogger begins his run on a path and jogs at a rate of 6 mph. A second jogger begins at the same spot, but runs at a rate of 6.5 mph. The second jogger begins 15 minutes after the first jogger. How long will it take for the second jogger to catch up to the first jogger?



Mixture Problem

Determine the number of liters of a 50% solution and number of 75% solution that are required to make 10 liters of 60% solution.



HW: p. 194, 2-54 every other even, every even for extra credit