

$$3. \text{ Number of each} = \frac{6300}{3.50 + 21.50} = 252.$$

$$4. \text{ Number} = 375 \times 789 + 862 = 296287.$$

$$5. 19 + 17 + 15 = 51.$$

$$\therefore \text{ sum received by first out of } \$51 = \$19.$$

$$\begin{array}{rcl} \text{"} & \text{"} & \$35700 = \frac{35700 \times \$11}{51} \\ & & = 700 \times \$19 \\ & & = \$13300. \end{array}$$

$$\begin{array}{rcl} \text{"} & \text{second} & = \frac{35700 \times \$17}{51} \\ & & = \$11900. \end{array}$$

$$\begin{array}{rcl} \text{"} & \text{third} & = \frac{35700 \times \$15}{51} \\ & & = \$10500. \end{array}$$

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1. In working such problems as this, begin with the last result and work towards the beginning of the example, always reversing the operation described in the problem.

$$\text{Arith. Comp. of } 7846 = 10000 - 7846 = 2154. \quad \text{Art. 49.}$$

$$\text{"} \quad \text{"} \quad 3479 = 10000 - 3479 = 6521$$

$$\text{Difference} = 4867$$

$$\text{Number} = [\{ (883 + 4867) \div 10 \} + 1225] \times 4 = 7000.$$

$$2. 5 \text{ lbs. tea} = 15 \text{ lbs. coffee} = \frac{15 \times 8}{4} \text{ lbs. sugar.}$$

$$\therefore 75 \text{ lbs. tea} = \frac{15 \times 15 \times 8}{4} \text{ lbs. sugar} = 450 \text{ lbs.}$$

$$3. \text{ Number} = 18675 + (45209 - 27645) = 31239.$$