

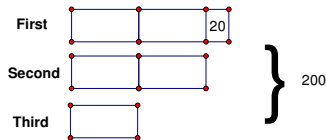


Math Olympiad and Problem Solving Programs
F120 - Intermediate Problem Solving
Problem Set 24.1 - Four Operations

Name:

Date:

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8. He paid $\$1000 - \$30 = \$970$. The chairs cost $\$58$, and he bought 6, so the chairs cost $\$58 \times 6 = \348 . The table cost $\$970 - \$348 = \boxed{\$622}$
9. In the first three months, Jake saved $\$18 \times 3 = \54 . In the first four months, he saved $\$54 + \$25 = \$79$. So he must have saved $\$100 - \$79 = \boxed{\$21}$ in the fifth month.
10. We use a box diagram. Let a box represent how many coins are in the third bag. Then the second bag has 2 boxes, because it is twice as many as the third bag. Then the first bag has 2 boxes + 20, because it has 20 more than the second bag.



We know the total of the boxes is 200. Let's cut off the extra 20 from the first bag. Then we have that $5 \text{ boxes} = 200 - 20 = 180$. If each box is the same, then each box represents $180 \div 5 = 36$. We want to know how many coins are in the third bag, and the third bag is 1 box, so the third bag contains coins.