Mobile Math Worksheet Answers
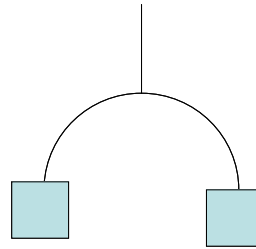
1. **Assuming a balanced mobile, find the appropriate weights for the mobile parts below, so that the total weight equals the amount given.**

    Example:
    If the total weight equals 9 grams, each block must weigh 4.5 grams.

    $9 \div 2 = 4.5$ OR $4.5 + 4.5 = 9$

    A. If the total weight = 1237 grams:
    Each block must weigh 618.5 grams

    B. If the total weight = 3529 grams:
    Each block must weigh 1764.5 grams

    C. If the total weight = 629 grams:
    Each block must weigh 314.5 grams

    D. If the total weight = 368.23 grams:
    Each block must weigh 184.115 grams

    E. If the total weight = 45.36 grams:
    Each block must weigh 22.68 grams

    F. If the total weight = 2158.3 grams:
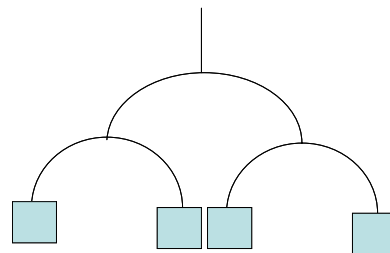   Each block must weigh 1079.15 grams

2. **Assuming a balanced mobile, find the appropriate weights for the mobile parts below, so that the total weight equals the amount given.**

    Example:
    If the total weight equals 9 grams, each block must weigh 2.25 grams.

    $9 \div 4 = 2.25$
    OR $2.25 + 2.25 + 2.25 + 2.25 = 9$

    A. If the total weight = 136.78 grams
    Each block must weigh 34.195 grams

    B. If the total weight = 965.12 grams
    Each block must weigh 240.53 grams

    C. If the total weight = 716.92 grams
    Each block must weigh 179.23 grams

    D. If the total weight = 29.84 grams
    Each block must weigh 7.46 grams

    E. If the total weight = 278.6 grams
    Each block must weigh 69.65 grams

    F. If the total weight = 65.72 grams
    Each block must weigh 16.43 grams