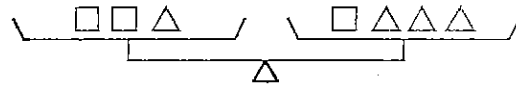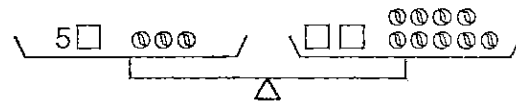# Pan-Balance Equations (continued)

Solve these pan-balance problems. In each figure, the two pans are in perfect balance.
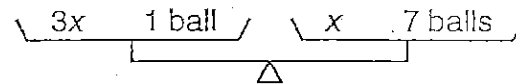
5. One ☐ weighs

as much as _____ △'s.

☐ ☐ △   ☐ △ △ △

6. One ☐ weighs

as much as _____ marbles.

5☐ ⊚⊚⊚   ☐ ☐ ⊚⊚⊚⊚ / ⊚⊚⊚⊚⊚

7. One *x* weighs

as much as _____ balls.

3*x*   1 ball   *x*   7 balls

Check your answers:

The sum of the answers to Problems 5 and 6 should equal 4.

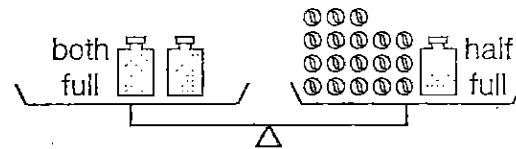The sum of the answers to Problems 6 and 7 should equal 5.

Challenge

8. An empty bottle weighs as much as 6 marbles.

The contents of a full bottle weigh

as much as _____ marbles.
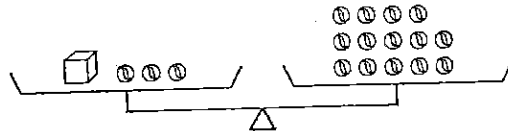
A full bottle weighs as

much as _____ marbles.
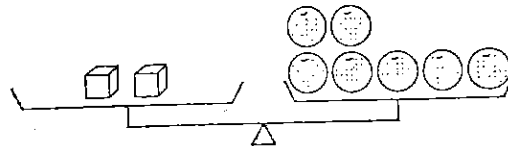
both full   ⊚⊚⊚ / ⊚⊚⊚⊚⊚ / ⊚⊚⊚⊚⊚ / ⊚⊚⊚⊚⊚ half full

Pan-Balance Equations

Solve these pan-balance problems. In each figure, the two pans are in perfect balance.
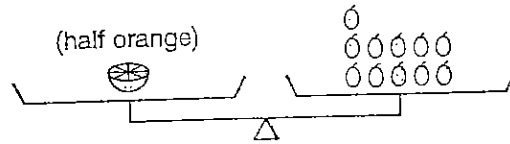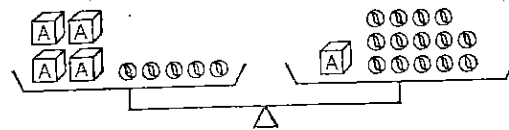
1. One cube weighs

   as much as _____ marbles.

2. One cube weighs

   as much as _____ oranges.

3. One orange weighs

   (half orange)

   as much as _____ grapes.

4. One block weighs

   as much as _____ marbles.

Check your answers:

The sum of the answers to Problems 1 and 2 should equal $14\frac{1}{2}$.

The sum of the answers to Problems 3 and 4 should equal 25.