

Pan-Balance Problems

Lesson 6-4

DATE

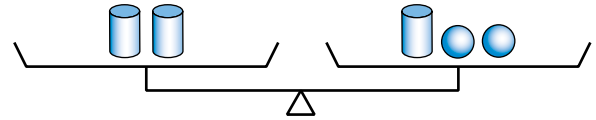
TIME

Math Message


- 1 a. Let m be the number of cylinders and n be the number of spheres.

Write an equation that shows that the weights of the two sides are equal. _____

- b. Represent your equation with a bar model.

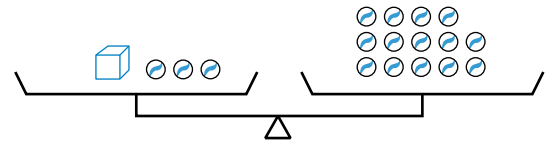


- 2 Use the pan balance in Problem 1.

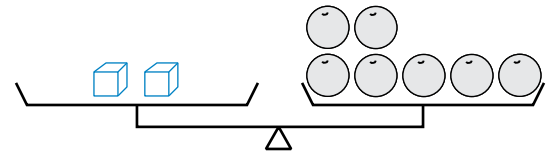
 weighs as much as _____ spheres.

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

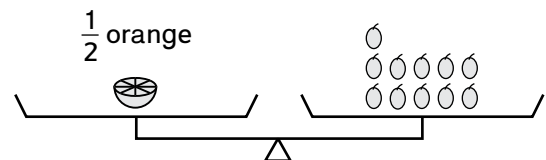
- 3 One cube weighs as much as _____ marbles.



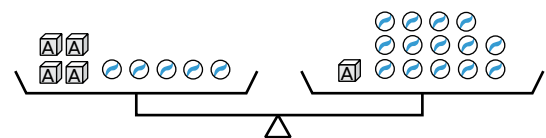
- 4 One cube weighs as much as _____ oranges.



- 5 One whole orange weighs as much as _____ grapes.



- 6 One block weighs as much as _____ marbles.



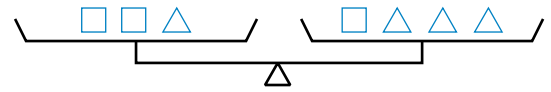
Pan-Balance Problems (continued)

Lesson 6-4

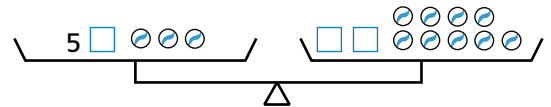
DATE

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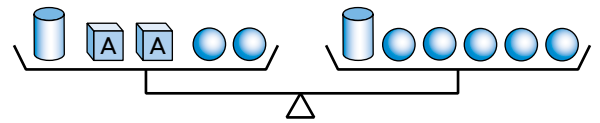
- 7 One \square weighs
as much as _____ \triangle s.



- 8 One \square weighs
as much as _____ marbles.



- 9 One block weighs
as much as _____ balls.



Try This

- 10 An empty bottle weighs as much as 6 marbles.
- The content within a full bottle weighs
as much as _____ marbles.
 - A full bottle together with its content weighs
as much as _____ marbles.
 - Explain your solutions.

