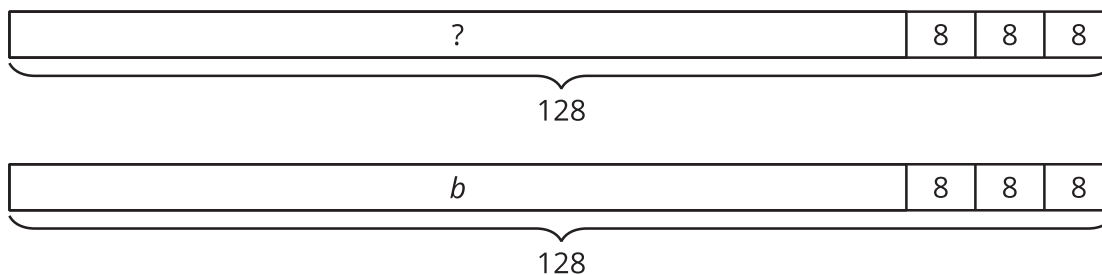


Lesson 19: Situations and Equations

- Let's represent and solve problems.

Warm-up: Notice and Wonder: The Unknown

What do you notice? What do you wonder?



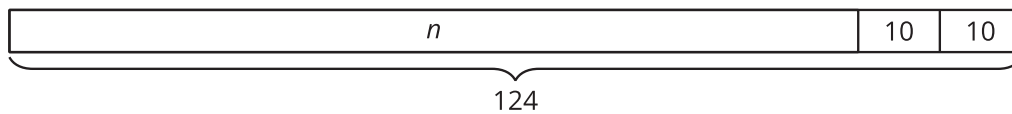
19.1: Mai's Beads

Part 1

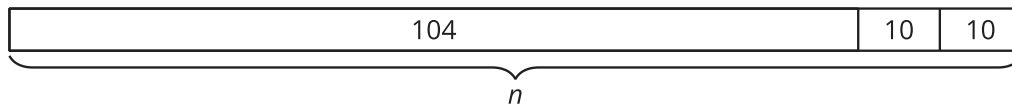
Match each diagram with a situation. Be ready to explain your reasoning.

- Situation 1: Mai had 104 beads. She bought two packs of beads and now she has 124 beads. How many beads were in each pack?
- Situation 2: Mai had some beads. She bought 2 more packs of beads and each pack has 10 beads in it. Now she has 124 beads. How many beads did Mai have before?
- Situation 3: Mai had 104 beads. She bought 2 more packs of beads and each pack has 10 beads in it. How many beads does she have now?

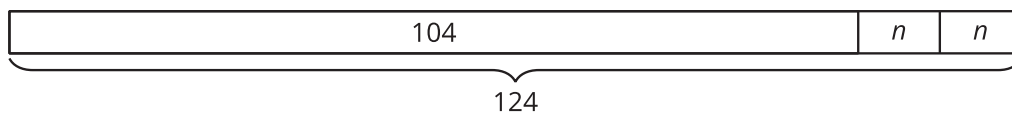
A



B



C



Part 2

Match each equation with a letter for the unknown quantity to a situation in Part 1.

1. $104 + 2 \times 10 = n$
2. $104 + (2 \times n) = 124$
3. $n + 10 + 10 = 124$

19.2: Represent, Solve, Explain

Kiran is setting up a game of mancala. He has a jar of 104 stones.

From the jar, he takes 3 stones for each of the 6 pits on his side of the board.

How many stones are in the jar now?



1. Write an equation to represent the situation. Use a letter for the unknown quantity.

2. Solve the problem. Explain or show your reasoning.

3. Explain how you know your answer makes sense.
