

## Grade 3 Unit 3

Lesson 19

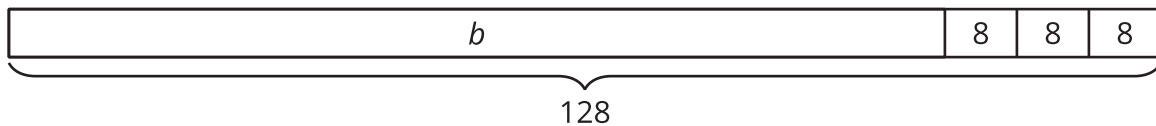
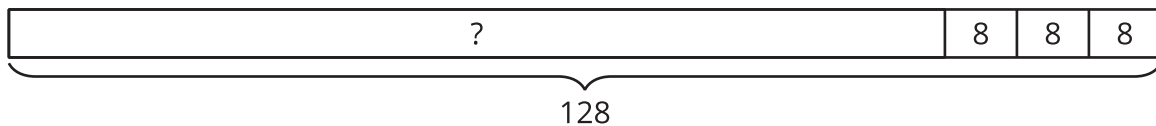
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## Unit 3 Lesson 19: Situations and Equations

### WU Notice and Wonder: The Unknown (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?



### 1 Mai's Beads

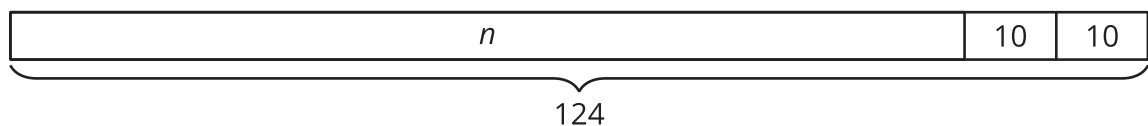
#### Student Task Statement

Part 1

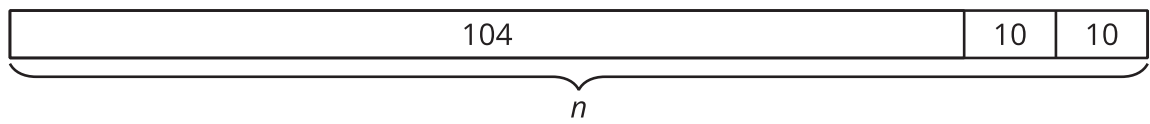
Match each diagram with a situation. Be ready to explain your reasoning.

- 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?

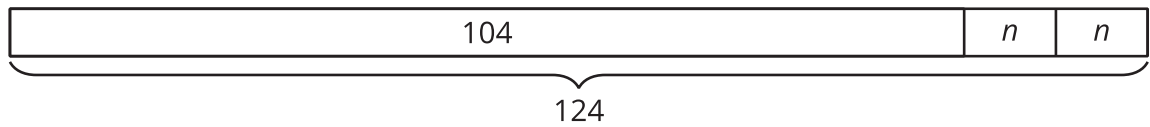
**A**



**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.  $n + 10 + 10 = 124$

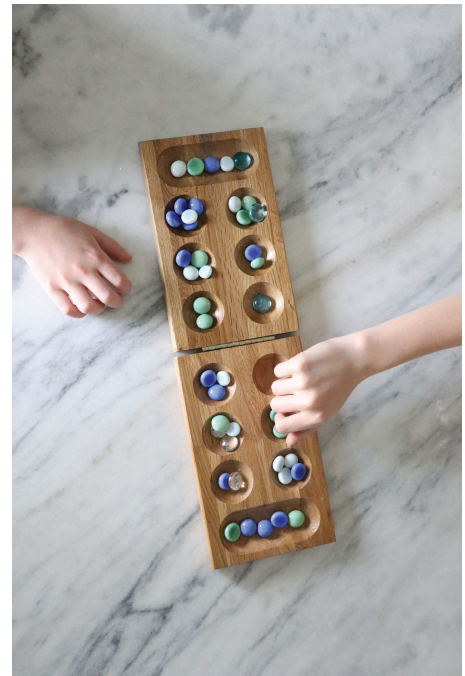
## 2 Represent, Solve, Explain

### Student Task Statement

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.