MY Homework

Homework Helper

eHelp

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Cassie is doing sand art. She fills a bottle with 10 inches of sand. She makes two equal layers of yellow sand with a layer of blue sand in between. The layer of blue sand is 1 inch greater than each layer of yellow sand. How many inches of each color of sand does she use?

1 Understand

What facts do you know?

The bottle holds 10 inches of sand. There are two equal layers of yellow sand. There is one layer of blue sand that is 1 inch greater than each yellow layer.

What do you need to find?

the number of inches of each color of sand used

2 Plan

Guess, check, and revise to solve the problem.

3 Solve

Layers of Sand (in.)				
1st Yellow Layer (in.)	2nd Yellow Layer (in.)	Blue Layer (in.)	Total (in.)	Check
4	4	5	$4 + 4 + 5 = 13$	too high
3	3	4	$3 + 3 + 4 = 10$	correct

So, there are two 3-inch layers of yellow sand with a 4-inch layer of blue sand in between the yellow sand layers.

4 Check

Does the answer make sense?

Yes; $3 + 3 + 4 = 10$ and $4 - 3 = 1$.

Problem Solving

Guess, check, and revise to solve each problem.

1. Max was on vacation twice as long as Jared and half as long as Wesley. The boys were on vacation a total of 3 weeks. How many days was each boy on vacation?

_____

_____

2. Anu drinks 2 cups of water each day. Jan drinks twice as much water as Anu. How many fluid ounces does Jan drink?

_____

3. **Plan Your Solution** Casey likes to run. She runs an additional $\frac{1}{4}$ mile each day. On the last day, she ran $1\frac{1}{4}$ miles. If she ran $\frac{1}{2}$ mile her first day, for how many days has she been running?

_____

4. There are 4 semi-trailer trucks parked in a line at the rest stop. After the first truck, each truck in the line weighs 2 tons more than the truck before it. The trucks weigh a total of 32 tons. How many pounds does each truck weigh?

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My Work!