Homework Helper

Alfredo has a board that is 2 meters long. He needs 3 pieces that are each 50 centimeters long. How many centimeters of the original board will be left after he cuts the 3 pieces he needs?

1. Convert the meters to centimeters. Meters are larger than centimeters, so you will multiply.
   2 meters \times 100 = 200 \text{ centimeters}

2. Multiply to find the total length of the 3 pieces Alfredo needs.
   3 \times 50 \text{ centimeters} = 150 \text{ centimeters}

3. Subtract to find the new length of the original board.
   200 - 150 = 50 \text{ centimeters}

So, Alfredo will have 50 centimeters left of the original board.

Practice

1. Chloe buys 3 jars of peanut butter for the food drive. Each jar has a mass of 0.2 kilogram. What is the mass of all 3 jars of peanut butter? Use the number line.

   \[ +0.2 \quad +0.2 \quad +0.2 \]

   \[ 0 \quad 0.1 \quad 0.2 \quad 0.3 \quad 0.4 \quad 0.5 \quad 0.6 \quad 0.7 \quad 0.8 \quad 0.9 \quad 1.0 \]
Problem Solving

2. Aidan mixes 630 milliliters of blue paint with 2 liters of red paint to make purple paint. How many milliliters of purple paint does Aidan have?

3. Celine is knitting a scarf. The finished length will be 1.2 meters. So far she has knitted 0.8 meters. How many more meters does Celine need to knit? Draw a number line to solve.

4. Joanie’s bag of trail mix has a mass of 0.75 kilogram. She and some friends eat 0.5 kilogram of the mix. How many kilograms of trail mix are left? Draw a number line to solve.

5. **Mathematical PRACTICE Use Math Tools** Ross found 5 ladybugs. Each is 0.8 centimeter long. If he lays the ladybugs in a row, what is the total length in millimeters? Draw a number line to solve.

6. Lucas is riding his bike to the park which is 2 kilometers from his house. When he is one-fourth of the way to the park, it starts to rain. Lucas turns around and rides back home. How many meters did Lucas ride?

Test Practice

7. Grayson stacked 17 kilograms of firewood on Saturday and 15 kilograms of firewood on Sunday. How many more grams of firewood did he stack on Saturday?

   - ☐ 2,000 grams
   - ☐ 20,000 grams
   - ☐ 3,200 grams
   - ☐ 32,000 grams