LESSON MAKER PRO

Measure the Difference

Change units, then solve.

GRADE 4 · 4.GR.A.2

4.GR.A.2 "Use the four operations to solve problems in context involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving common fractions or decimals..."

NAME _____ DATE _____

USE THE SAME UNIT

Before you add or subtract measurements, change them to the same unit. To change a larger unit to a smaller unit, multiply by the number of smaller units it contains.

WORKED EXAMPLE

A pitcher holds 6 liters of juice. You pour out 250 milliliters. How many milliliters remain? (1 liter = 1,000 milliliters.)

1. 6 × 1,000 = 6,000 milliliters
2. 6,000 − 250 = 5,750 milliliters

Answer: 5,750 milliliters

PRACTICE 6 problems

1 A toy car travels 75 centimeters along a 4-meter track. How many centimeters of the track are left? (1 meter = 100 centimeters.)

ANSWER _____

2 A game lasts 1 hour and 35 minutes. How many minutes does it last? (1 hour = 60 minutes.)

ANSWER _____

3 A sack weighs 2 pounds. You take out 5 ounces. How many ounces remain? (1 pound = 16 ounces.)

ANSWER _____

4 You have $10.00. You buy a sticker for $1.75 and a pen for $2.40. How much money is left?

ANSWER _____

5 A cooler holds 3 quarts of water. You pour out 7 cups. How many cups remain? (1 quart = 4 cups.)

ANSWER _____

6 A ribbon is 2 1/2 yards long. How many feet long is it? (1 yard = 3 feet.)

ANSWER _____

APPLY IT Show your work

1 At a school fair, Kai has $15.00. He buys a game ticket for $3.50 and a snack for $2.75. How much money does he have left?

WORK SPACE

ANSWER _____

2 Your team has 2 hours to finish a video game challenge. You spend 45 minutes on the first level and 38 minutes on the second level. How many minutes remain? (1 hour = 60 minutes.)

WORK SPACE

ANSWER _____

CHALLENGE One step up

A pet shelter has 4 yards of ribbon for pet collars. It cuts 2 pieces that are each 2 1/2 feet long and 1 piece that is 3 feet long. How many feet of ribbon are left? (1 yard = 3 feet.) Explain with an equation.

WORK SPACE AND ANSWER

ANSWER KEY

Measure the Difference

GRADE 4 · 4.GR.A.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy car travels 75 centimeters along a 4-meter track. How many centimeters of the track are left? (1 meter = 100 centimeters.)	**325 centimeters**
2	A game lasts 1 hour and 35 minutes. How many minutes does it last? (1 hour = 60 minutes.)	**95 minutes**
3	A sack weighs 2 pounds. You take out 5 ounces. How many ounces remain? (1 pound = 16 ounces.)	**27 ounces**
4	You have $10.00. You buy a sticker for $1.75 and a pen for $2.40. How much money is left?	**$5.85**
5	A cooler holds 3 quarts of water. You pour out 7 cups. How many cups remain? (1 quart = 4 cups.)	**5 cups**
6	A ribbon is 2 1/2 yards long. How many feet long is it? (1 yard = 3 feet.)	**7 1/2 feet**

PART 2 · APPLY IT

1. **$8.75** The purchases cost $6.25 in all. Subtract $6.25 from $15.00.
2. **37 minutes** Change 2 hours to 120 minutes. Subtract the 83 minutes spent on the two levels.

CHALLENGE

4 feet; 4 × 3 − 2 × (2 1/2) − 3 = 4.

Accept 7.5 feet for 7 1/2 feet. For the challenge, accept any correct equation that converts yards to feet and subtracts all three cut pieces.