LESSON MAKER PRO

Measure It Up

Solve problems with mass and liquid volume.

GRADE 3 · MT.3.MD.2

MT.3.MD.2 "Measure and estimate liquid volumes and masses of objects using customary and metric units by adding, subtracting, multiplying, and dividing to solve one-step problems in context that involve masses or volumes that are given in the same..."

NAME _____ DATE _____

CHOOSE AN OPERATION

Keep the units the same as you solve. Add amounts to combine them, subtract to find what remains, multiply for equal groups, or divide to share equally.

WORKED EXAMPLE

A pitcher has 9 cups of juice. You pour in 5 more cups. How many cups are in the pitcher now?

1. The cups are being combined, so add.
2. 9 + 5 = 14

Answer: 14 cups

PRACTICE 6 problems

1 One jar holds 12 ounces of honey. Another holds 8 ounces. How many ounces do they hold in all?

ANSWER _____

2 A bag has 32 ounces of rice. You use 7 ounces. How many ounces remain?

ANSWER _____

3 Each bottle holds 4 liters of water. How many liters do 3 bottles hold?

ANSWER _____

4 You share 24 grams of beads equally among 3 bags. How many grams go in each bag?

ANSWER _____

5 One pail has 18 cups of water. Another has 11 cups. How many cups are in the pails in all?

ANSWER _____

6 Each box holds 2 pounds of clay. How many pounds do 8 boxes hold?

ANSWER _____

APPLY IT Show your work

1 The school garden has 36 liters of water in a tank. Students use 17 liters to water plants. How many liters are left?

WORK SPACE

ANSWER _____

2 A slime club shares 28 grams of glitter equally among 4 batches of slime. How many grams of glitter go in each batch?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A team has 30 ounces of water. They want to put 8 ounces in each of 4 water balloons. Is there enough water? Explain with a calculation.

WORK SPACE AND ANSWER

ANSWER KEY

Measure It Up

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	One jar holds 12 ounces of honey. Another holds 8 ounces. How many ounces do they hold in all?	**20 ounces**
2	A bag has 32 ounces of rice. You use 7 ounces. How many ounces remain?	**25 ounces**
3	Each bottle holds 4 liters of water. How many liters do 3 bottles hold?	**12 liters**
4	You share 24 grams of beads equally among 3 bags. How many grams go in each bag?	**8 grams**
5	One pail has 18 cups of water. Another has 11 cups. How many cups are in the pails in all?	**29 cups**
6	Each box holds 2 pounds of clay. How many pounds do 8 boxes hold?	**16 pounds**

PART 2 · APPLY IT

1. **19 liters** Subtract the amount used: 36 - 17 = 19 liters.
2. **7 grams** Divide the total mass by the number of batches: 28 / 4 = 7 grams.

CHALLENGE

No. They need 8 × 4 = 32 ounces, which is more than 30 ounces.

For each problem, accept the correct number with its unit. For the challenge, accept any clear calculation showing that 4 balloons need more than 30 ounces.