

Name _____

Solve Multi-step Measurement Problems

I Can solve multi-step measurement problems with conversions.

Florida's B.E.S.T.

- Measurement 5.M.1.1
- Number Sense & Operations 5.NSO.2.5
- Mathematical Thinking & Reasoning
MTR.1.1, MTR.2.1, MTR.3.1, MTR.4.1,
MTR.5.1, MTR.6.1, MTR.7.1



UNLOCK the Problem



A leaky faucet in Justice's house drips 1 cup of water each hour. After 3 weeks of dripping, the faucet is fixed. If it dripped the same amount each hour, how many quarts of water dripped from Justice's leaky faucet in 3 weeks?

Use the steps to solve the multistep problem.



STEP 1

Record the information you are given.

The faucet drips _____ cup of water each hour.

The faucet drips for _____ weeks.

STEP 2

Find the total amount of water dripped in 3 weeks.

Since you are given the amount of water dripped each hour, you must convert 3 weeks into days and multiply.

Think: There are 7 days in 1 week.

cups each hour		hours in 1 day		days in 3 weeks		total cups
↓		↓		↓		↓
1	×	_____	×	_____	=	_____

The faucet drips _____ cups in 3 weeks.

STEP 3

Convert from cups to quarts.

Think: There are 2 cups in 1 pint.

There are 2 pints in 1 quart.

_____ cups = _____ pints

_____ pints = _____ quarts

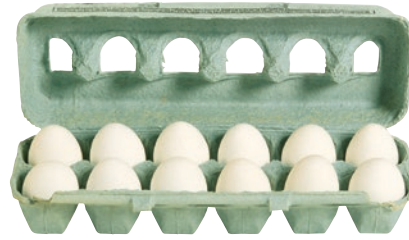
So, Justice's leaky faucet drips _____ quarts of water in 3 weeks.

- What if the faucet dripped for 4 weeks before it was fixed?
How many quarts of water would have leaked?

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Examples

A carton of large, Grade A eggs holds a dozen eggs. If each egg is about 45 mL, what is the total volume of the eggs in 8 cartons in liters?



STEP 1

Find the total volume of the eggs in the cartons.

Think: 8 cartons = _____ eggs

Multiply to find the total volume.

volume per egg		number of eggs		total mL
↓		↓		↓
45	×	_____	=	_____

The volume of the eggs is about _____ milliliters.

STEP 2

Find the volume of the eggs in liters.

Think: 1 liter = _____ milliliters

I am converting from a _____ unit to a _____ unit, so I will _____.

total milliliters		milliliters in 1 liter		number of liters
↓		↓		↓
4,320	÷	_____	=	_____

The volume of the eggs in 8 cartons is about _____ liters.

Share and Show



Solve.

- After each soccer practice, Luka runs 4 sprints of 20 yards each. If he continues his routine, how many practices will it take for Luka to have sprinted a total of 2 miles combined?

Luka sprints _____ yards each practice.

Since there are _____ yards in 2 miles, he will need to continue his routine for

_____ practices.

- A worker at a mill is loading 2,500-gram bags of flour into boxes to deliver to a local warehouse. Each box holds 12 bags of flour. If the warehouse orders 9,000 kilograms of flour, how many boxes are needed to fulfill the order?

- Ty brings five 1-gallon jugs of juice to serve during parent night at his school. If the paper cups he is using for drinks can hold 8 fluid ounces, how many drinks can Ty serve for parent night?



MTR
3.1 Complete tasks with mathematical fluency.

Explain the steps you took to solve Problem 2.