Fraction Division Problem Solving

Solve a word problem by putting the total first in a fraction division, then check by multiplying.

Name _____ **Date** _____

Tonight's spark

A pitcher has 2/3 gallon of lemonade. Each cup holds 1/6 gallon. How many cups can you fill?

Guess first: will it be more than 2 cups, or fewer?



2/3 gallon = 4 cups of 1/6 gallon

Our class model: total ÷ group size

Try it

Work it out on paper. Write one answer on each line.

1 **A bottle holds 4/5 liter. Each cup holds 1/10 liter. How many cups can you fill? Which number is the dividend (the total)?**

A. 1/10 **B.** 4/5 **C.** 5 **D.** 14/10

My answer _____

2 **Which equation finds how many 1/8-pound servings are in 3/4 pound?**

A. 1/8 ÷ 3/4 **B.** 3/4 × 1/8 **C.** 3/4 ÷ 1/8 **D.** 3/4 + 1/8

My answer _____

3 **Find 3/4 ÷ 1/8.**

A. 3/32 **B.** 5/8 **C.** 1/6 **D.** 6

My answer _____

4 **Find 7/8 ÷ 1/4.**

A. 3 1/2 **B.** 7/32 **C.** 1 1/8 **D.** 2/7

My answer _____

5 **Maya finds 1/2 ÷ 1/8 = 4. Which multiplication checks her answer?**

A. 4 × 1/2 = 1/8 **B.** 4 × 1/8 = 1/2 **C.** 4 ÷ 1/8 = 1/2 **D.** 4 + 1/8 = 1/2

My answer _____

6 **A pitcher has 3/4 quart of juice. Each glass holds 3/16 quart. How many glasses can be filled?**

A. 3/64 **B.** 9/16 **C.** 4 **D.** 1/4

My answer _____

Talk about it

Which amount is the total being split, the pitcher or one cup?

Home mission

Pick a big cup and a small scoop. Say out loud, "The total is the big cup, and one group is the scoop." Guess how many scoops fill the cup. Then scoop and count. Which came first in your division?

If we get stuck, ask

- Which number is the total being split up? That one goes first.
- Does the story ask how many groups fit? Then we divide.
- Let's check: if we multiply the answer by the piece size, do we get the total back?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/6-11/homework.html

How did it feel? (optional)

Tricky Getting there Got it