5–2 Problem-Solving Investigation: Act It Out

MAIN IDEA

- Solve problems by acting them out.

EXAMPLE

PIES **Darnell and Ayana bought $8\frac{1}{4}$ pounds of peaches. Each pie requires $1\frac{1}{3}$ pounds of peaches. How many pies can Darnell and Ayana make?**

UNDERSTAND You know they have ____ pounds of peaches and each pie requires ____ pounds. You need to determine how many pies they can make.

PLAN Using a scale, find or create something that weighs approximately $1\frac{1}{3}$ pounds. Keep adding $1\frac{1}{3}$-pound items to the scale until the total weight is as close to $8\frac{1}{4}$ pounds as possible without going over.

SOLVE $1\frac{1}{3} + 1\frac{1}{3} + 1\frac{1}{3} + 1\frac{1}{3} + 1\frac{1}{3} + 1\frac{1}{3} =$ ____ lb.

Six $1\frac{1}{3}$-pound items weigh ____ lb.

Seven $1\frac{1}{3}$-pound items would weigh more than $8\frac{1}{4}$ pounds, so they have enough peaches to make ____ pies.

CHECK Seven $1\frac{1}{3}$-pound items would weigh $8 + 1\frac{1}{3}$ or ____ pounds. Since they only have ____ lb. of peaches, they do not have enough to make 7 pies.

Check Your Progress **LEMONADE** Isabel plans to fill a pitcher that holds $7\frac{2}{3}$ cups with lemonade. Each glass she will use to serve the lemonade holds $1\frac{2}{5}$ cups. How many guests can she serve lemonade to if each guest has one glass full?

HOMEWORK ASSIGNMENT

Page(s):

Exercises: