

You will need

play money

Describing Remainders as Decimals

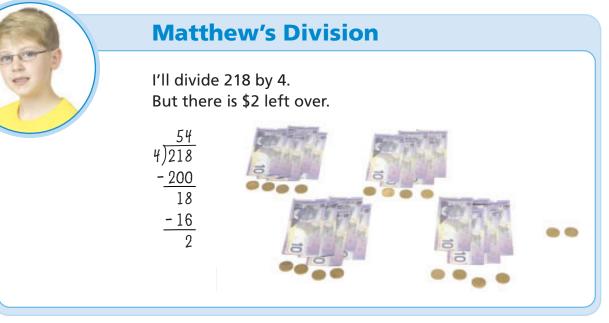
GOAL

Solve division problems with decimal remainders.

Matthew and three of his friends earned \$218 by doing chores for their neighbours. They want to share their earnings equally.







- A. How can Matthew share the remaining \$2 using coins?
- **B.** How many dollars will each friend receive? How many cents will each friend receive?

Reflecting

- C. How can you write each share using decimals?
- D. Why does it make sense to rename the \$2 so that you can write the remainder as a decimal?

Checking

- **1.** Five friends will share equally the \$148 they earned.
 - a) Estimate each share.
 - b) Calculate each share in dollars and cents. Write your answer as a decimal.

Practising

- 2. A set of four badminton rackets costs \$97. Four friends plan to share the set.
 - a) Estimate how much money each friend will need.
 - b) Calculate how much money each friend will need. Show your work.
- **3.** Mitchell bought 10 flower pots for \$71.
 - a) He said that each pot cost \$7 R1. Why should he write the remainder as a decimal?
 - b) What is the cost of each pot?
- 4. Jackson wants to cut 10 m of wool into eight equal strips. How long will each strip be? Record the remainder as a decimal number of metres.
- 5. A whole number of dollars is being shared by five people.
 - a) If they are sharing \$26, why would both dollars and cents be used for the amount each person receives?



