## GOAL

Decide how to deal with the remainder in a division problem.

Three students wrote problems that they could solve by calculating $111 \div 6$.
$6 \longdiv { 1 8 }$
$-\frac{60}{51}$
How does the problem help you decide what to do with the remainder?

A. Why do you think Matthew gave 19 as his answer?
B. Why do you think Lauren represented the remainder as a fraction in her answer?
C. Why do you think Desmond left the remainder out of his answer?
D. How did the problem help you decide what to do with the remainder?

## Reflecting

E. Describe situations in which you would deal with an answer in each of these ways:

- round the quotient up to the next whole number
- write the remainder as a fraction or decimal
- use the quotient and not the remainder Use examples to explain your thinking.


## Checking

1. Chantal has 158 photos to arrange in an album. She wants to put 4 photos on each page.
a) How many pages will she need? Show your work.
b) Describe what you did with the remainder and explain why.

2. Write a new problem about $158 \div 4$, in which you would do something different with the remainder than you did in Question 1. Explain what you would do differently.

## Practising

3. a) 4 friends are sharing 125 marbles. How many marbles will each friend get if they share equally?
b) Describe what you did with the remainder and explain why.
4. a) The rafts for the Scary Tunnel ride hold 4 people. If 202 children go on the ride at the same time, how many rafts are needed?
b) Describe what you did with the remainder and explain why.

5. Divide to solve each problem. Show your work, and explain what you did with the remainder.
a) Nadine uses 4 pieces of wood to make a picture frame. How many picture frames can she make with 518 pieces of wood?
b) Cupcakes come in packages of 6 . Jesse needs 157 cupcakes. How many packages should he buy?
c) Lisa and 3 friends have earned $\$ 225$. They want to share the money equally. How much money will each person get?
6. Write a division problem in which you would use a fraction for the remainder.
7. Ian solved a problem by dividing 412 by 7 . He said the answer is 59 . What could the problem have been?
8. Write a problem about dividing 223 by 3 . Solve your problem, and explain what you did with the remainder.
