## Chapter 6 Leesson 4 or Decimals

## Percents as Fractions

## You will need

- hundredths grids
- pencil crayons



## Mai's Model

I'll use a hundredths grid to represent $100 \%$ of the trash. I can show $27 \%$ on a grid.

A. What fraction represents the part of the grid that is coloured?
B. What decimal represents the part of the grid that is coloured?
C. What percent of trash is not recycled? Explain.
D. How do you know that Canadians recycled more than $\frac{1}{4}$ of their trash in 2004?
E. What portion of their trash might Canadians be recycling now? Express this value as a fraction and as a decimal. Why did you choose this value?

## Reflecting

F. Why is it easy to change a decimal such as 0.37 into a percent?
G. Why is it helpful to think of 0.6 as 0.60 if you want to write 0.6 as a percent?

## Checking

1. Copy and complete this chart.

Equivalent Forms

| Percent | Fraction | Decimal |
| :---: | :---: | :---: |
| $25 \%$ |  |  |
|  | $\frac{3}{100}$ |  |
|  |  | 0.4 |

## Practising

2. Write each percent as a fraction and as a decimal.
a) $75 \%$
b) $38 \%$
c) $4 \%$
d) $60 \%$
3. Write each percent as a fraction and as a decimal.
a) $20 \%$ of the people in the world have Internet access.
b) $96 \%$ of the people who started a marathon race completed it.
4. Colour a hundredths grid to show each fraction or decimal. Write the equivalent percent.
a) 0.85
b) $\frac{5}{10}$
c) $\frac{18}{100}$
d) 0.09
5. Bradan coloured more than $\frac{2}{5}$ of a hundredths grid, but less than 0.47 of the grid. About what percent of the grid is covered? How do you know?
6. Why can any percent be written as a fraction or a decimal? Use an example to explain.
