## 4-8 Writing Fractions as Decimals

## EXAMPLES Write Fractions as Decimals

Main IDEA

- Write fractions as decimals.


## FOLDABLES

## Organize IT

Summarize the process for writing a fraction as a decimal under the Fractions tab of your Foldable.


## Write each fraction as a decimal.

(1) $\frac{7}{10}$

Since the denominator is 10 , write $\frac{7}{10}$ as a decimal.
$\frac{7}{10}=\square \quad$ Read 0.7 as seven tenths.
$2 \frac{1}{4}$
Since 4 is a factor of 100 , write an equivalent fraction with a denominator of 100 .


Since $4 \times 25=100$, multiply the numerator and denominator by 25 .

Read 0.25 as twenty-five hundredths.
$\frac{3}{8}$
METHOD 1 Use paper and pencil.


METHOD 2 Use a calculator.
$3 \div 8$ ENTER 0.375
Therefore, $\frac{3}{8}=$ $\square$

Check Your Progress
Write each fraction as a decimal.
a. $\frac{3}{10}$
$\square$
b. $\frac{9}{20}$

c. $\frac{5}{8}$

## EXAMPLE Mixed Numbers as Decimals

4) BEVERAGES At a meeting, people drank 25 bottles of water. The water came in packs of 8 . This makes $3 \frac{1}{8}$ eight-packs. Write this number as a decimal. $3 \frac{1}{8}=\square+\square \begin{aligned} & \text { Definition of a mixed } \\ & \text { number. }\end{aligned}$ $=3+1 \overleftarrow{\div} 8$ ENTER $\quad \begin{aligned} & \text { Use a calculator to write } \frac{1}{8} \\ & \text { as a decimal. }\end{aligned}$


Read 3.125 as three and one hundred twenty-five thousandths.

People at the meeting drank $\square$ eight-packs of bottled water.

Check Use a calculator. $3 \square 1 \div 8$ ENTER $3.125 \checkmark$

Check Your Progress
PAPER Lilly's school used $5 \frac{4}{25}$ boxes of paper copying newsletters to be distributed to each student in the school. Write this number as a decimal.

