## Another Look!

The Plainville Zoo has had elephants for $2 \frac{2}{3}$ years.
The zoo has had zebras for $1 \frac{1}{2}$ years. How many


## Additional <br> Practice 7-10

Subtract Mixed
Numbers more years has the zoo had elephants?

> Remember: You need a common denominator
> to subtract fractions.

## Step 1

Write equivalent fractions with a common denominator. You can use fraction strips.


## Step 2

Find the difference $2 \frac{4}{6}-1 \frac{3}{6}$. Subtract the fractions. Then subtract the whole numbers.

$$
\frac{4}{6}-\frac{3}{6}=\frac{1}{6} \quad 2-1=1
$$

So, $2 \frac{2}{3}-1 \frac{1}{2}=1 \frac{1}{6}$.
The zoo has had the elephants $1 \frac{1}{6}$ years longer.

In 1-9, find each difference.

1. $4 \frac{3}{5}=4 \frac{9}{15}$
$\frac{-2 \frac{1}{3}=2 \frac{5}{15}}{2 \frac{4}{15}}$
2. 5
$-3 \frac{5}{6}$
3. 3
$\begin{array}{r}-1 \frac{3}{4} \\ \hline 1 \frac{1}{4}\end{array}$
4. $10 \frac{5}{8}$
$-5 \frac{3}{4}$
5. $5 \frac{6}{7}$
$\frac{-1 \frac{1}{2}}{4 \frac{5}{14}}$
6. $7 \frac{3}{10}-2 \frac{1}{5} 5 \frac{1}{10}$
7. $9 \frac{2}{3}-6 \frac{1}{2} 3 \frac{1}{6}$
8. $8 \frac{1}{4}-\frac{7}{8} 7 \frac{3}{8}$
9. To find the difference of $7-3 \frac{5}{12}$, how do you rename the 7 ?
I know that $\frac{12}{12}=1$. I can rename 7 as $6 \frac{12}{12}$.
10. Higher Order Thinking Is it necessary to rename $4 \frac{1}{4}$ to subtract $\frac{3}{4}$ ? Explain. Sample answer: You cannot subtract $\frac{3}{4}$ from $\frac{1}{4}$, so rename $4 \frac{1}{4}$ as $3 \frac{5}{4}$.

Use the table for 12-15. The table shows the length and width of different bird eggs.
12. How much longer is the Canada goose egg than the raven egg?
$1 \frac{1}{2}$ in. longer
13. How much wider is the turtle-dove egg than the robin egg?

| Egg Sizes in Inches (in.) |  |  |  |
| :---: | :---: | :---: | :---: |
| Bird | Length | Width |  |
| Canada goose | $3 \frac{2}{5}$ | $2 \frac{3}{10}$ |  |
| Robin | $\vdots$ | $\frac{3}{4}$ | $\vdots$ |$\frac{3}{5}$.

$\frac{3}{10}$ in. wider
14. Write the birds in order from the shortest egg to the longest egg. Robin, turtle dove, raven, Canada goose
15. Model with Math Write and solve an equation to find the difference between the length and width of a turtle-dove egg.
$\frac{3}{10}$ in.; $1 \frac{1}{5}-\frac{9}{10}=\frac{3}{10}$

## Assessment Practice

16. Choose the correct number from the box below to complete the subtraction sentence that follows.

$$
\begin{array}{llllll}
1 & 2 & 6 & 8 & 12 & 18 \\
\hline
\end{array}
$$

$1 \frac{5}{6}-\frac{4}{9}=1 \frac{7}{18}$
17. Choose the correct number from the box below to complete the subtraction sentence that follows.

123456
$9 \frac{5}{12}-3 \frac{2}{3}=5 \frac{3}{4}$

