Name _____

Practice   Video   Tools   Games

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 more years has the zoo had elephants?
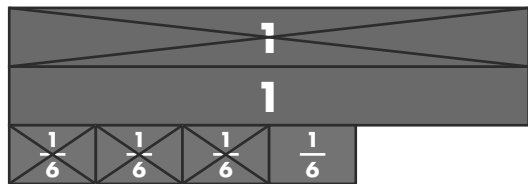
> Remember: You need a common denominator to subtract fractions.

Step 1

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

$$2\frac{2}{3} = 2\frac{4}{6}$$

$$1\frac{1}{2} = 1\frac{3}{6}$$

Step 2

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

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

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. $4\frac{3}{5} = 4\frac{\square}{15}$

  $-\, 2\frac{1}{3} = 2\frac{\square}{15}$

2. 5

  $-\, 3\frac{5}{6}$

3. $10\frac{5}{8}$

  $-\, 5\frac{3}{4}$

4. $5\frac{6}{7}$

  $-\, 1\frac{1}{2}$

5. 3

  $-\, 1\frac{3}{4}$

6. $6\frac{5}{6}$

  $-\, 5\frac{1}{2}$

7. $7\frac{3}{10} - 2\frac{1}{5}$

8. $9\frac{2}{3} - 6\frac{1}{2}$

9. $8\frac{1}{4} - \frac{7}{8}$

10. To find the difference of $7 - 3\frac{5}{12}$, how do you rename the 7?

11. Higher Order Thinking Is it necessary to rename $4\frac{1}{4}$ to subtract $\frac{3}{4}$? Explain.

Use the table for **12–15**. The table shows the length and width of different bird eggs.

DATA

Egg Sizes in Inches (in.)		
Bird	**Length**	**Width**
Canada goose	$3\frac{2}{5}$	$2\frac{3}{10}$
Robin	$\frac{3}{4}$	$\frac{3}{5}$
Turtle dove	$1\frac{1}{5}$	$\frac{9}{10}$
Raven	$1\frac{9}{10}$	$1\frac{3}{10}$

12. How much longer is the Canada goose egg than the raven egg?

13. How much wider is the turtle-dove egg than the robin egg?

14. Write the birds in order from the shortest egg to the longest egg.

How can you compare fractions with unlike denominators?

15. Model with Math Write and solve an equation to find the difference between the length and width of a turtle-dove egg.

Assessment Practice

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

| 1   2   6   8   12   18 |

$$1\frac{5}{6} - \frac{4}{9} = 1\frac{7}{\square}$$

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

| 1   2   3   4   5   6 |

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