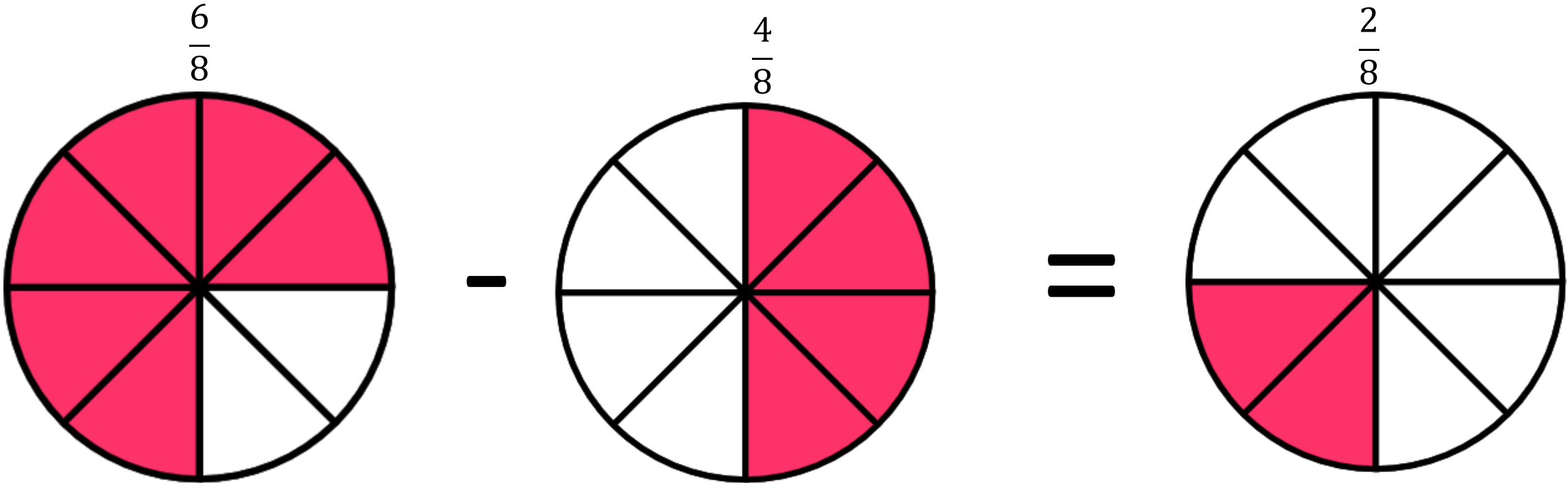


# Subtraction Involving Mixed Numbers

# Review: Subtracting Fractions with Like Denominators

Subtract the numerators  
Keep the same denominators



# Subtraction Involving Mixed Numbers

We can subtract mixed numbers by following these steps:

1. Write the mixed numbers as the whole number + the fraction
2. Subtract the whole numbers
3. Subtract the fractions
4. Combine the differences to form a mixed number

Example:  $5\frac{6}{7} - 3\frac{2}{7}$

Step 1:  $5\frac{6}{7} = 5 + \frac{6}{7}$     *and*     $3\frac{2}{7} = 3 + \frac{2}{7}$     so     $5\frac{6}{7} - 3\frac{2}{7} = 5 + \frac{6}{7} - 3 + \frac{2}{7}$

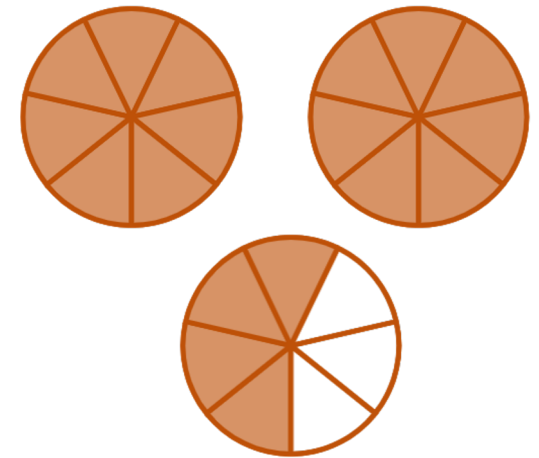
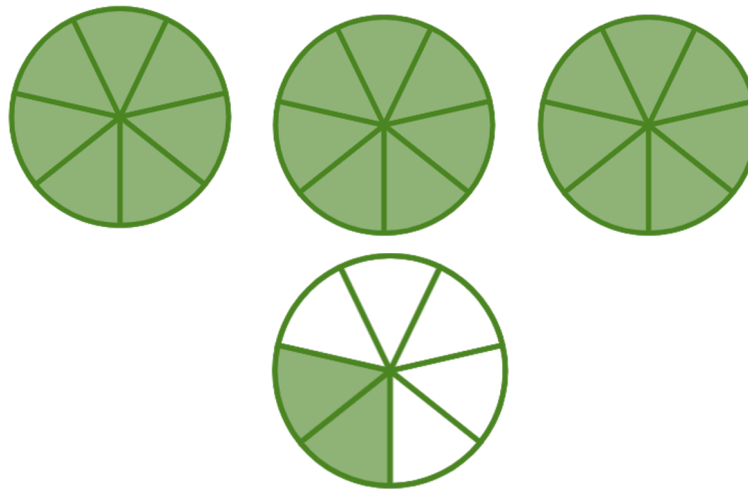
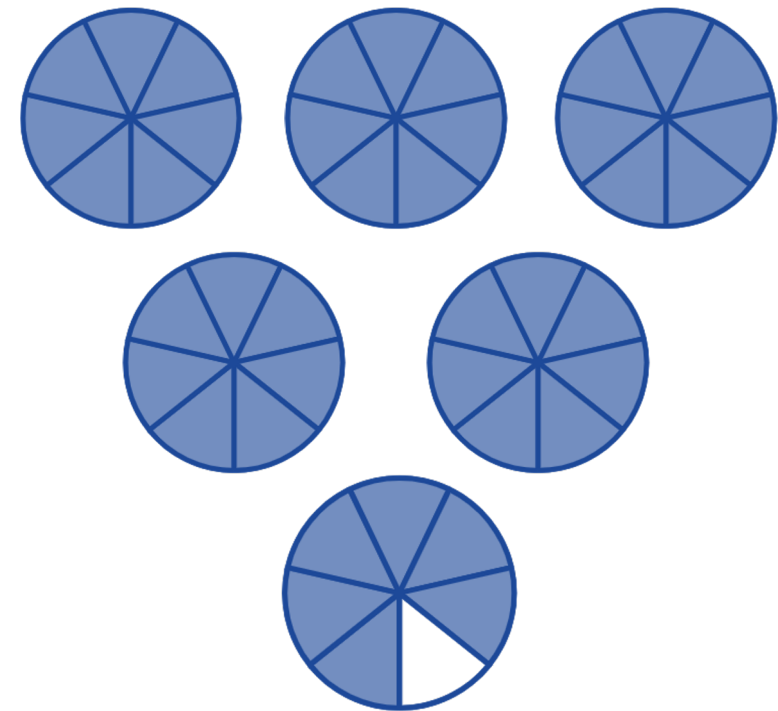
Step 2:  $5 - 3 = 2$

Step 3:  $\frac{6}{7} - \frac{2}{7} = \frac{4}{7}$

Step 4:  $5\frac{6}{7} - 3\frac{2}{7} = 2\frac{4}{7}$

# Subtraction Involving Mixed Numbers using Models

$$5\frac{6}{7} - 3\frac{2}{7} = 2\frac{4}{7}$$

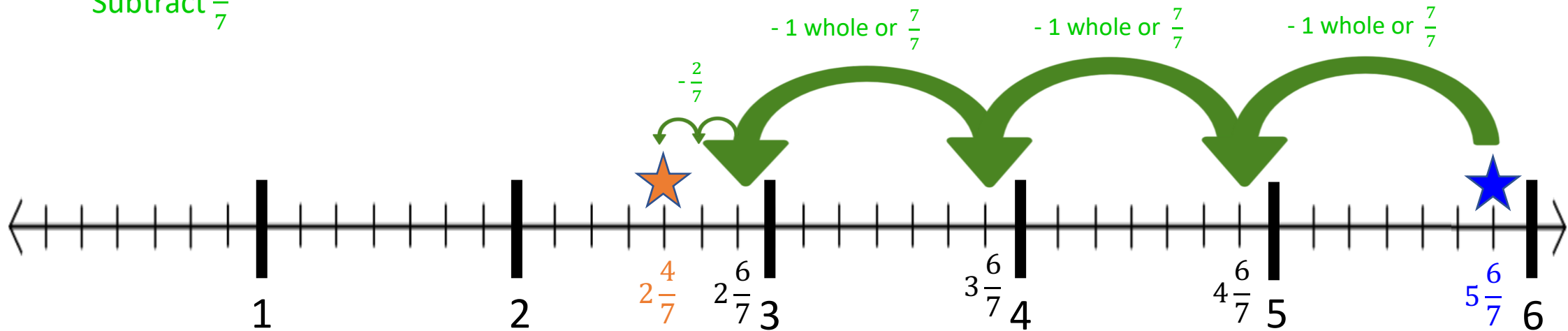


# Subtraction Involving Mixed Numbers using Number Lines

$$5\frac{6}{7} - 3\frac{2}{7} = 2\frac{4}{7}$$

Start at  $5\frac{6}{7}$   
Subtract 3 wholes  
Subtract  $\frac{2}{7}$

Start at  $5\frac{6}{7}$  - 1 whole or  $\frac{7}{7} = 4\frac{6}{7}$  - 1 whole or  $\frac{7}{7} = 3\frac{6}{7}$  - 1 whole or  $\frac{7}{7} = 2\frac{6}{7}$  -  $\frac{1}{7}$  -  $\frac{1}{7} = 2\frac{4}{7}$



# Let's Practice: Subtraction Involving Mixed Numbers

$$3\frac{3}{8} - 2\frac{1}{8} = 1\frac{2}{8}$$

$$4\frac{11}{12} - 2\frac{8}{12} = 2\frac{3}{12} = 2\frac{1}{4}$$