

Fractions on a Number Line— Adding with Unlike Denominators

Name: _____

You will add fractions with unlike denominators using a number line.

EXPLORE

1. Open **Fractions on a Number Line--Adding with Unlike Denominators.gsp**. Go to page “A.”

Choose **Make Fraction** from the Custom Tools menu.

Follow these steps to make a fraction:

- Click a number. This is the numerator.
- Click another number. This is the denominator.
- Click to place the fraction line segment on a number line. Your fraction is complete!

If you make a fraction but don't want to keep it, choose **Edit | Undo Make Fraction**.

2. Use the Make Fraction tool to represent $\frac{1}{2} + \frac{1}{4}$ on the top number line. Now add the fractions again on the second number line, but this time using equivalent fractions with a common denominator. Write the sum below.

3. Go to page “B.” Use the Make Fraction tool to find the sum of $\frac{1}{2} + \frac{1}{3}$. Write it below.

4. Go to page “C.” Use the Make Fraction tool to find the sum of $\frac{2}{3} + \frac{1}{6}$. Write it below.

5. Go to page “D.” Use the Make Fraction tool to find the sum of $\frac{1}{10} + \frac{3}{4}$. Write it below.

6. Go to page “E.” Use the Make Fraction tool to find the sum of

$$\frac{2}{3} + \frac{2}{7}. \text{ Write it below.}$$

7. Go to page “F.” Use the Make Fraction tool to find the sum of

$$\frac{1}{4} + \frac{2}{5}. \text{ Write it below.}$$

8. Go to page “G.” Use the Make Fraction tool to find the sum of

$$\frac{3}{8} + \frac{5}{6}. \text{ Write it below.}$$

9. Go to page “H.” Use the Make Fraction tool to find the sum of

$$\frac{1}{8} + \frac{5}{12}. \text{ Write it below.}$$

10. Go to page “I.” Use the Make Fraction tool to find the sum of

$$\frac{3}{2} + \frac{3}{4}. \text{ Write it below.}$$

11. Go to page “J.” Use the Make Fraction tool to find the sum of

$$\frac{7}{12} + \frac{3}{2}. \text{ Write it below.}$$

12. Explain how you decided what common denominator to use.
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13. Explain how making equivalent fractions with a common denominator helped you to find the sum of fractions with unlike denominators.
