

WARM WELCOME



**Today we will add fractions
making like units numerically.**



Let's Talk:

**Do I always have
to draw a model to
add fractions with
unlike units?**

$$\frac{1}{2} + \frac{1}{4}$$



Let's Think:

Find the sum by making like units numerically.

$$\frac{1}{3} + \frac{4}{5}$$



Let's Think:

Find the sum by making like units numerically.

$$1\frac{1}{2} + \frac{3}{7}$$



Let's Try It:

Let's explore adding fractions making like units numerically together.

Name: _____

G5 U3 Lesson 8 - Let's Try It

Consider the expression $\frac{1}{5} + \frac{1}{3}$.

1. Model each addend.



2. Partition each area model to show like units. What unit do you have now? _____

3. Show how you can use multiplication to rewrite $\frac{1}{5}$ with like units.

$$\frac{1}{5} = \frac{1 \times \underline{\quad}}{5 \times \underline{\quad}} = \frac{\underline{\quad}}{\underline{\quad}}$$

4. Show how you can use multiplication to rewrite $\frac{1}{3}$ with like units.

$$\frac{1}{3} = \frac{1 \times \underline{\quad}}{3 \times \underline{\quad}} = \frac{\underline{\quad}}{\underline{\quad}}$$

5. How is the multiplication you did in #3 and #4 related to the area model you drew?

6. Determine the sum.

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7. List at least two other common multiples of 3 and 5 that can be used to find like units.

8. Use multiplication and one of the common multiples to add $\frac{1}{5} + \frac{1}{3}$ a different way.

9. Is the sum from Question #8 equivalent to the sum from Question #6? Explain.

Consider the expression $\frac{3}{4} + \frac{1}{3}$.

10. List at least two common multiples you can use to make like units.

11. Use multiplication to write the expression using equivalent fractions with like units.

12. What is the sum as a fraction greater than 1? As a mixed number?

Consider the expression $\frac{2}{9} + \frac{1}{6}$.

13. Kyle wants to use the common multiple 18 to make like units. Trevor wants to use the common multiple 54 to make like units. Who do you agree with and why?

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On your Own:

Now it's time to explore adding fractions making like units numerically on your own.

Name: _____

G5 U3 Lesson 8 - Independent Work

1. Make like units. Then add.

$$\frac{1}{3} + \frac{7}{9}$$

$$\frac{11}{8} + \frac{3}{4}$$

2. Make like units. Then add.

$$\frac{2}{3} + \frac{7}{11}$$

$$\frac{5}{6} + \frac{3}{4}$$

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3. Make like units. Then add.

$$1\frac{1}{10} + \frac{1}{4}$$

$$\frac{2}{7} + 1\frac{1}{5}$$

4. The two students below tried to solve the same problem. Look at their work. Who is correct? How do you know?

BRAD

$$\frac{1}{6} + \frac{1}{4} = ?$$

$$\frac{2}{12} + \frac{3}{12} = \frac{5}{12}$$

AMBER

$$\frac{1}{6} + \frac{1}{4} = ?$$

$$\frac{4}{24} + \frac{6}{24} = \frac{10}{24}$$

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