

Topic B Quiz Prep (Lessons 5 – 9)

There will be 6 questions on this quiz. Practice each of the questions below to prepare.

Item #1: Rename each fraction. Then find the sum.

- Are we ready to add these fractions as they are written? **No.**
- Are the units related? **No. They are unrelated.**
- Which fraction should we rename? **We need to rename both fractions.**
- What do we need to do before we can add? **Find a COMMON denominator by skip counting.**
- **5,10,15,20,25,30,35....**
- **7,14,21,28,35....**

$$\frac{4}{5} + \frac{2}{7} \Rightarrow \frac{28}{35} + \frac{10}{35} = \frac{38}{35}$$

Item #2: Add and Subtract Fractions with Unrelated Units

$$\frac{7}{12} - \frac{1}{4} \Rightarrow \frac{7}{12} - \frac{3}{12} = \frac{4}{12}$$

- Are we ready to subtract these fractions as they are written? **No.**
- Are the units related? **Yes. They are related.**
- Which fraction should we rename? **We need to rename fourths into twelfths.**
- What do we need to do before we can subtract? **Find a COMMON denominator by skip counting by multiples of 4: 4,8,12... 4 x 3 =12**

$$\frac{2}{20} + \frac{3}{4} + \frac{1}{8} \Rightarrow \frac{4}{40} + \frac{30}{40} + \frac{5}{40} = \frac{39}{40}$$

- Are we ready to add these fractions as they are written? **No.**
- Are the units related? **No. They are not all related.**
- Which fraction should we rename? **We need to rename all three fractions.**
- What do we need to do before we can add? **Find a COMMON denominator by skip counting.**
- **20, 40....**
- **4, 8,12,16,20,24,28,32,36,40....**
- **8,16,24,32,40...**

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Item #3: Using Models to Add Fractions.

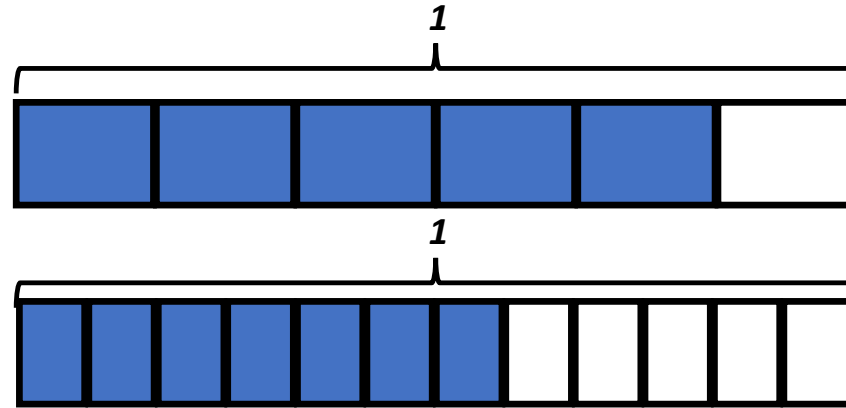
The shaded part of each model represents a fraction.

The top model represents $\frac{5}{6}$

The bottom model represents $\frac{7}{12}$

Which expression represents the SUM of the two fractions.

$$\frac{10}{12} + \frac{7}{12}$$



Item #4: Estimate each sum or difference. Indicate whether the value of each expression is LESS THAN 1, BETWEEN 1 and 2, or GREATER THAN 2

$$\frac{2}{5} + \frac{1}{3}$$

LESS THAN ONE

Both of these fractions are less than one. If we make them related units, they become $\frac{6}{15} + \frac{5}{15} = \frac{11}{15}$

$$\frac{1}{3} + \frac{6}{7}$$

BETWEEN ONE AND TWO

$\frac{6}{7}$ is almost 1 by itself. So, if we add $\frac{1}{3}$ that would put us over one. If we make them related units, they become $\frac{7}{21} + \frac{18}{21} = \frac{25}{21}$.

$$\frac{5}{4} + \frac{8}{9}$$

GREATER THAN TWO

$\frac{5}{4}$ is larger than one and $\frac{8}{9}$ is almost one, so together these fractions would be more than 2. If we make them related units, they become $\frac{45}{36} + \frac{32}{36} = \frac{77}{36}$

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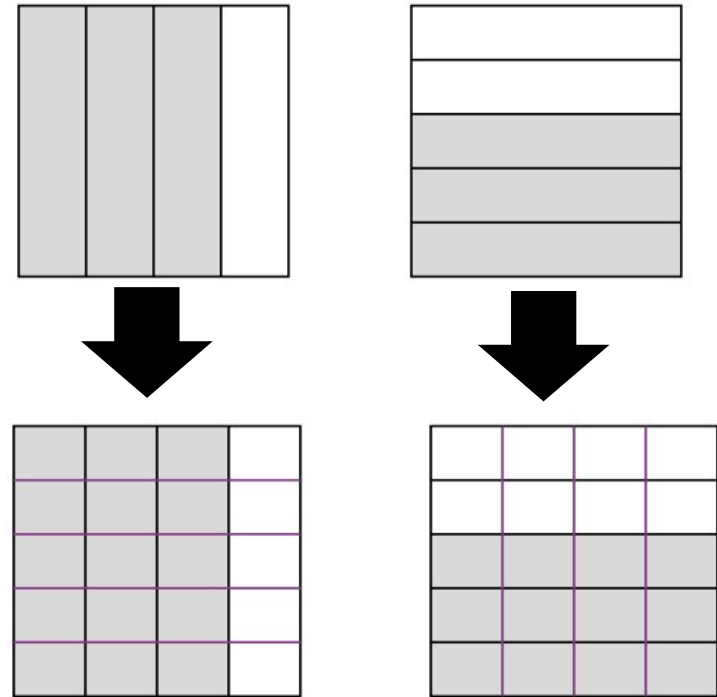
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Item #5: Using Area Model to Make Like Units.

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

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$$\frac{15}{20} + \frac{12}{20} = \frac{27}{20}$$



Item #6: Word Problem with Fractions.

Ryan walks $\frac{2}{3}$ miles. Then he takes a break before he walks another $\frac{1}{6}$ mile. How far does Ryan walk altogether?

$$\frac{2}{3} + \frac{1}{6} \rightarrow \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$