

Name: Key

Study Guide: Adding & Subtracting Unlike Units

Finding Like Units Numerically & Number Line Representations

1. Circle all of the expressions that could be used to add $\frac{1}{3} + \frac{3}{5}$.

~~$\frac{1}{15} + \frac{3}{15}$~~
 ~~$\frac{2}{5} + \frac{3}{5}$~~
 $\frac{10}{30} + \frac{18}{30}$
 ~~$\frac{8}{25} + \frac{15}{25}$~~
 $\frac{15}{45} + \frac{27}{45}$
 ~~$\frac{9}{30} + \frac{7}{30}$~~
 ~~$\frac{1}{3} + \frac{3}{5}$~~
 $\frac{5}{15} + \frac{9}{15}$

2. Michael walked from the gym to home and then to the park. He lives 2 and 4 fifths miles from the gym and 4 and 3 fifths miles from the park. Write an equation that can be used to find out how far Michael ~~biked~~ walked.

$2\frac{4}{5} + 4\frac{3}{5} = ?$ $6\frac{7}{5} = 7\frac{2}{5}$ miles

3. Estimate whether each of the following will be greater than 1 or less than 1.

$\frac{3}{4} + \frac{5}{6}$ (> 1)
 $\frac{4}{9} + \frac{1}{2}$ (< 1)
 $\frac{5}{9} + \frac{1}{10}$ (< 1)

3. Estimate whether each of the following will be greater than 1/2 or less than 1/2.

$2\frac{3}{10} + \frac{1}{5}$ ($< \frac{1}{2}$)
 $\frac{8}{9} - \frac{2}{10}$ ($> \frac{1}{2}$)
 $\frac{4}{9} - \frac{1}{7}$ ($< \frac{1}{2}$)

4. First, make like units. Then add or subtract. When possible, write your answer as a mixed number and simplify. Circle your final answer.

$4\frac{3}{7} - 1\frac{3}{4}$
 $4\frac{12}{28} - 1\frac{21}{28}$
 $3\frac{40}{28} - 1\frac{21}{28} = 2\frac{19}{28}$
 $2\frac{3}{5} + 1\frac{2}{3}$
 $2\frac{9}{15} + 1\frac{10}{15}$
 $3\frac{19}{15} = 4\frac{4}{15}$

5. Are the following statements true?

A. $4\frac{3}{7} - 1\frac{3}{4} > 3\frac{1}{2}$
 B. $1\frac{1}{2} + 3\frac{1}{5} < 6 + \frac{1}{2}$
 (False)
 ($4\frac{4}{10}$)
 (True)

6. Write an expression that could be accurately represented by each number line below. *answers vary based on the values given on the number lines.

