9

Name _____ Date _____
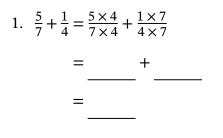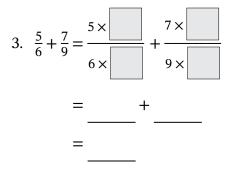
Make like units. Then add or subtract.

1. $\dfrac{5}{7} + \dfrac{1}{4} = \dfrac{5 \times 4}{7 \times 4} + \dfrac{1 \times 7}{4 \times 7}$

   $= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$

2. $\dfrac{3}{4} - \dfrac{1}{6} = \dfrac{3 \times 3}{4 \times 3} - \dfrac{1 \times 2}{6 \times 2}$

   $= \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$

3. $\dfrac{5}{6} + \dfrac{7}{9} = \dfrac{5 \times \boxed{}}{6 \times \boxed{}} + \dfrac{7 \times \boxed{}}{9 \times \boxed{}}$

   $= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$

4. $\dfrac{3}{2} - \dfrac{4}{9} = \dfrac{3 \times \boxed{}}{2 \times \boxed{}} - \dfrac{4 \times \boxed{}}{9 \times \boxed{}}$

   $= \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$

5. $\dfrac{3}{10} + \dfrac{5}{4} = \underline{\hspace{1.5cm}} + \underline{\hspace{1.5cm}}$

   $= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$

6. $\dfrac{15}{8} - \dfrac{11}{9} = \underline{\hspace{1.5cm}} - \underline{\hspace{1.5cm}}$

   $= \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$

   $= \underline{\hspace{1cm}}$
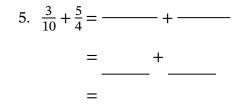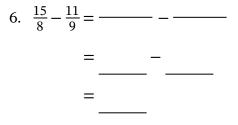
Mentally estimate the sum or difference and circle to show your estimate. Then add or subtract. Show your work.

7. $\frac{2}{8} + \frac{2}{5} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

8. $\frac{8}{10} - \frac{2}{6} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

9. $\frac{6}{7} + \frac{3}{5} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

10. $\frac{13}{8} - \frac{5}{6} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

11. $\frac{7}{6} + \frac{9}{7} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

12. $\frac{15}{12} - \frac{11}{9} =$ _____

    Estimate:

    less than 1   between 1 and 2   greater than 2

Make like units to add or subtract. Show your work.

13. $\frac{1}{3} + \frac{3}{5} + \frac{4}{5} =$ _____

14. $\left(\frac{1}{2} + \frac{2}{3}\right) - \frac{4}{5} =$ _____

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15. Toby correctly added $\frac{11}{12}$ and $\frac{7}{8}$.

$$\frac{11 \times 8}{12 \times 8} + \frac{7 \times 12}{8 \times 12} = \frac{88}{96} + \frac{84}{96} = \frac{172}{96}$$

a. Explain how Toby chose the units he used and why he could have used other units.

b. Find $\frac{11}{12} + \frac{7}{8}$ by using different units than Toby.

Use the Read–Draw–Write process to solve the problem.

16. Riley has $\frac{3}{4}$ gallons of lemonade at a lemonade stand. Yuna brings an additional $\frac{2}{3}$ gallons of lemonade to the stand. Together, they sell $\frac{1}{2}$ gallon of lemonade. How many gallons of lemonade do they have left?