

Add and Subtract Fractions with Unlike Denominators

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Interactive Examples

Find the sum or difference.

1. $\frac{1}{2} - \frac{1}{7}$

$$\begin{array}{r} \frac{1}{2} \rightarrow \frac{7}{14} \\ -\frac{1}{7} \rightarrow -\frac{2}{14} \\ \hline \frac{5}{14} \end{array}$$

2. $\frac{7}{10} - \frac{1}{2}$

3. $\frac{1}{6} + \frac{1}{2}$

4. $\frac{5}{8} + \frac{2}{5}$

5. $\frac{9}{10} - \frac{1}{3}$

6. $\frac{3}{4} - \frac{2}{5}$

7. $\frac{5}{7} - \frac{1}{4}$


8. $\frac{7}{8} + \frac{1}{3}$

9. $\frac{5}{6} + \frac{2}{5}$

Problem Solving

10. Kaylin mixed two liquids for a science experiment. One container held $\frac{7}{8}$ cup and the other held $\frac{9}{10}$ cup. What is the total amount of the mixture?

11. Hector bought $\frac{1}{4}$ pound of screws and $\frac{2}{5}$ pound of nails to build a skateboard ramp. What is the total weight of the screws and nails?

12.  **WRITE** *Math* How is $\frac{1}{2} + \frac{1}{4}$ solved differently than $\frac{1}{2} + \frac{1}{3}$?

Lesson Check

13. Lyle bought $\frac{3}{8}$ pound of red grapes and $\frac{5}{12}$ pound of green grapes. How many pounds of grapes did he buy?
14. Jennifer had a $\frac{7}{8}$ -foot board. She cut off a $\frac{1}{4}$ -foot piece that was for a project. In feet, how much of the board is left?

Spiral Review

15. Ivan has 15 yards of green felt and 12 yards of blue felt to make 3 quilts. If Ivan uses the same total number of yards for each quilt, how many yards does he use for each quilt?
16. Eight identical shirts cost a total of \$152. How much does one shirt cost?

17. Mel bought a pencil for \$0.34, an eraser for \$0.22, and a notebook for \$0.98. What is a reasonable estimate for the amount Mel spent?
18. The 12 members in Dante's hiking club shared 176 ounces of trail mix equally. How many ounces of trail mix did each member receive?
