

Unlike Denominators: Practice

Name: _____

A. Add or subtract. Show the renamed fractions. Simplify if you can.

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

2. $\frac{2}{3} - \frac{1}{6} =$

3. $\frac{1}{3} + \frac{1}{4} =$

4. $\frac{3}{4} - \frac{1}{8} =$

5. $\frac{2}{5} + \frac{1}{2} =$

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

7. $\frac{1}{6} + \frac{4}{9} =$

8. $\frac{7}{8} - \frac{1}{2} =$

9. $\frac{3}{10} + \frac{1}{5} =$

10. $\frac{4}{5} - \frac{2}{3} =$

11. $\frac{3}{8} + \frac{5}{12} =$

12. $\frac{11}{12} - \frac{1}{4} =$

B. These answers are more than 1 whole. Write each answer as a mixed number.

13. $\frac{3}{4} + \frac{1}{2} =$

14. $\frac{2}{3} + \frac{5}{6} =$

15. $\frac{4}{5} + \frac{1}{2} =$

16. $\frac{5}{6} + \frac{3}{4} =$

C. A recipe uses $\frac{2}{3}$ cup of milk and $\frac{1}{4}$ cup of water. How much liquid is that in all? How much more milk than water does it use?

D. Zoe says $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. She added the tops and added the bottoms. What did Zoe do wrong? What is the right answer?

Unlike Denominators: Practice Answer Key

The renamed fractions for each answer are shown in green.

A. Add or subtract. Show the renamed fractions. Simplify if you can.

$$1. \frac{1}{2} + \frac{1}{4} = \\ = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$

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

$$3. \frac{1}{3} + \frac{1}{4} = \\ = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$4. \frac{3}{4} - \frac{1}{8} = \\ = \frac{6}{8} - \frac{1}{8} = \frac{5}{8}$$

$$5. \frac{2}{5} + \frac{1}{2} = \\ = \frac{4}{10} + \frac{5}{10} = \frac{9}{10}$$

$$6. \frac{5}{6} - \frac{3}{4} = \\ = \frac{10}{12} - \frac{9}{12} = \frac{1}{12}$$

$$7. \frac{1}{6} + \frac{4}{9} = \\ = \frac{3}{18} + \frac{8}{18} = \frac{11}{18}$$

$$8. \frac{7}{8} - \frac{1}{2} = \\ = \frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

$$9. \frac{3}{10} + \frac{1}{5} = \\ = \frac{3}{10} + \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$$

$$10. \frac{4}{5} - \frac{2}{3} = \\ = \frac{12}{15} - \frac{10}{15} = \frac{2}{15}$$

$$11. \frac{3}{8} + \frac{5}{12} = \\ = \frac{9}{24} + \frac{10}{24} = \frac{19}{24}$$

$$12. \frac{11}{12} - \frac{1}{4} = \\ = \frac{11}{12} - \frac{3}{12} = \frac{8}{12} = \frac{2}{3}$$

B. These answers are more than 1 whole. Write each answer as a mixed number.

$$13. \frac{3}{4} + \frac{1}{2} = \frac{3}{4} + \frac{2}{4} = \frac{5}{4} = 1 \frac{1}{4} \quad 14. \frac{2}{3} + \frac{5}{6} = \frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1 \frac{1}{2}$$

$$15. \frac{4}{5} + \frac{1}{2} = \frac{8}{10} + \frac{5}{10} = \frac{13}{10} = 1 \frac{3}{10} \quad 16. \frac{5}{6} + \frac{3}{4} = \frac{10}{12} + \frac{9}{12} = \frac{19}{12} = 1 \frac{7}{12}$$

C. A recipe uses $\frac{2}{3}$ cup of milk and $\frac{1}{4}$ cup of water. How much liquid is that in all? How much more milk than water does it use?

In all: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ cup. More milk than water: $\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$ cup.

D. Zoe says $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$. She added the tops and added the bottoms. What did Zoe do wrong? What is the right answer?

Halves and thirds are different sizes, so they cannot be counted together. Zoe needed to rename them with a common denominator first: $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$.

Her answer cannot be right, because $\frac{2}{5}$ is less than $\frac{1}{2}$.