

Unlike Denominators: Guided Practice

Name: _____

A. Both bars are cut into same-size pieces. Count the shaded pieces to rename each fraction, then add.



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



$$2. \quad \frac{2}{3} + \frac{1}{6} = \frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{\boxed{}}{6}$$



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



$$4. \quad \frac{1}{4} + \frac{2}{3} = \frac{\boxed{}}{12} + \frac{\boxed{}}{12} = \frac{\boxed{}}{12}$$

B. One bottom number goes into the other, so use the bigger one. Rename, then add or subtract.

$$5. \quad \frac{1}{2} + \frac{3}{8} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$6. \quad \frac{7}{8} - \frac{1}{4} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$7. \quad \frac{2}{3} + \frac{1}{9} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$8. \quad \frac{7}{10} - \frac{2}{5} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

C. Find a common denominator first and write it in the box. Then rename both fractions and add or subtract.

Common denominator:

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

Common denominator:

$$10. \quad \frac{2}{3} - \frac{1}{2} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Common denominator:

$$11. \quad \frac{3}{4} - \frac{2}{5} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Common denominator:

$$12. \quad \frac{1}{6} + \frac{3}{8} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

D. These answers can be simplified. Write the answer in simplest form in the last boxes.

$$13. \quad \frac{1}{2} + \frac{1}{6} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$14. \quad \frac{5}{6} - \frac{1}{3} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$15. \quad \frac{1}{4} + \frac{1}{12} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$16. \quad \frac{9}{10} - \frac{2}{5} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Remember: make the bottoms match first. Then add or subtract the tops. The bottom stays the same.

Unlike Denominators: Guided Practice Answer Key

A. Both bars are cut into same-size pieces. Count the shaded pieces to rename each fraction, then add.



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



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



$$3. \frac{1}{2} + \frac{2}{5} = \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$



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

B. One bottom number goes into the other, so use the bigger one. Rename, then add or subtract.

$$5. \frac{1}{2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$

$$6. \frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$7. \frac{2}{3} + \frac{1}{9} = \frac{6}{9} + \frac{1}{9} = \frac{7}{9}$$

$$8. \frac{7}{10} - \frac{2}{5} = \frac{7}{10} - \frac{4}{10} = \frac{3}{10}$$

C. Find a common denominator first and write it in the box. Then rename both fractions and add or subtract.

Common denominator: 12

$$9. \frac{1}{4} + \frac{1}{6} = \frac{3}{12} + \frac{2}{12} = \frac{5}{12}$$

Common denominator: 6

$$10. \frac{2}{3} - \frac{1}{2} = \frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

Common denominator: 20

$$11. \frac{3}{4} - \frac{2}{5} = \frac{15}{20} - \frac{8}{20} = \frac{7}{20}$$

Common denominator: 24

$$12. \frac{1}{6} + \frac{3}{8} = \frac{4}{24} + \frac{9}{24} = \frac{13}{24}$$

D. These answers can be simplified. Write the answer in simplest form in the last boxes.

$$13. \frac{1}{2} + \frac{1}{6} = \frac{3}{6} + \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$$

$$14. \frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$15. \frac{1}{4} + \frac{1}{12} = \frac{3}{12} + \frac{1}{12} = \frac{4}{12} = \frac{1}{3}$$

$$16. \frac{9}{10} - \frac{2}{5} = \frac{9}{10} - \frac{4}{10} = \frac{5}{10} = \frac{1}{2}$$

Remember: make the bottoms match first. Then add or subtract the tops. The bottom stays the same.