ADDITION/SUBTRACTION OF FRACTIONS 1

TARGET **To add and subtract fractions with the same denominator and multiples of the same number.**

SAME DENOMINATOR

Add or subtract the numerators.

Put the answer over the same denominator.

Examples

$\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$

$\frac{7}{9} - \frac{4}{9} = \frac{3}{9}$

DIFFERENT DENOMINATORS

Convert one of the fractions to an equivalent fraction with the same denominator as the other fraction.

Examples

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

$\frac{11}{12} - \frac{1}{3} = \frac{11}{12} - \frac{4}{12} = \frac{7}{12}$

A

Work out

1. $\frac{3}{6} + \frac{1}{6}$
2. $\frac{2}{5} + \frac{2}{5}$
3. $\frac{2}{4} + \frac{1}{4}$
4. $\frac{4}{7} + \frac{2}{7}$
5. $\frac{2}{12} + \frac{9}{12}$
6. $\frac{3}{8} + \frac{4}{8}$
7. $\frac{4}{10} + \frac{4}{10}$
8. $\frac{1}{5} + \frac{3}{5}$
9. $\frac{5}{9} + \frac{2}{9}$
10. $\frac{3}{11} + \frac{6}{11}$
11. $\frac{1}{8} + \frac{5}{8}$
12. $\frac{5}{12} + \frac{4}{12}$
13. $\frac{7}{10} - \frac{3}{10}$
14. $\frac{4}{6} - \frac{2}{6}$
15. $\frac{6}{8} - \frac{1}{8}$
16. $\frac{5}{5} - \frac{2}{5}$
17. $\frac{3}{4} - \frac{1}{4}$
18. $\frac{8}{9} - \frac{5}{9}$
19. $\frac{10}{12} - \frac{3}{12}$
20. $\frac{2}{3} - \frac{1}{3}$
21. $\frac{5}{7} - \frac{3}{7}$
22. $\frac{9}{10} - \frac{4}{10}$
23. $\frac{8}{12} - \frac{6}{12}$
24. $\frac{5}{6} - \frac{4}{6}$

B

Copy and complete.

1. $\frac{2}{3} + \frac{1}{9} = \frac{\square}{9} + \frac{1}{9} = \frac{\square}{9}$
2. $\frac{1}{2} + \frac{2}{6} = \frac{\square}{6} + \frac{2}{6} = \frac{\square}{6}$
3. $\frac{3}{8} + \frac{1}{4} = \frac{3}{8} + \frac{\square}{\square} = \frac{\square}{\square}$
4. $\frac{7}{12} + \frac{1}{6} = \frac{7}{12} + \frac{\square}{\square} = \frac{\square}{\square}$
5. $\frac{2}{5} - \frac{1}{10} = \frac{\square}{10} - \frac{1}{10} = \frac{\square}{10}$
6. $\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{\square}{8} = \frac{\square}{8}$
7. $\frac{4}{6} - \frac{3}{12} = \frac{\square}{\square} - \frac{3}{12} = \frac{\square}{\square}$
8. $\frac{11}{12} - \frac{2}{3} = \frac{11}{12} - \frac{\square}{\square} = \frac{\square}{\square}$

Work out

9. $\frac{1}{10} + \frac{3}{5}$
10. $\frac{1}{2} + \frac{4}{10}$
11. $\frac{1}{6} + \frac{1}{3}$
12. $\frac{3}{4} + \frac{1}{12}$
13. $\frac{3}{4} - \frac{5}{8}$
14. $\frac{1}{2} - \frac{1}{12}$
15. $\frac{1}{3} - \frac{2}{9}$
16. $\frac{8}{10} - \frac{3}{5}$

C

Copy and complete.

1. $\frac{1}{2} + \frac{1}{3} = \frac{\square}{6} + \frac{\square}{6} = \frac{\square}{6}$
2. $\frac{3}{5} + \frac{1}{6} = \frac{\square}{30} + \frac{\square}{30} = \frac{\square}{30}$
3. $\frac{2}{3} + \frac{1}{5} = \frac{\square}{15} + \frac{\square}{15} = \frac{\square}{15}$
4. $\frac{2}{6} + \frac{1}{4} = \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$
5. $\frac{3}{4} - \frac{1}{3} = \frac{\square}{12} - \frac{\square}{12} = \frac{\square}{12}$
6. $\frac{1}{2} - \frac{2}{5} = \frac{\square}{10} - \frac{\square}{10} = \frac{\square}{10}$
7. $\frac{2}{3} - \frac{3}{10} = \frac{\square}{30} - \frac{\square}{30} = \frac{\square}{30}$
8. $\frac{4}{5} - \frac{5}{8} = \frac{\square}{40} - \frac{\square}{40} = \frac{\square}{40}$

Work out

9. $\frac{3}{4} + \frac{1}{6}$
10. $\frac{1}{2} + \frac{1}{10}$
11. $\frac{3}{5} + \frac{1}{2}$
12. $\frac{2}{3} + \frac{1}{4}$
13. $\frac{5}{6} - \frac{3}{5}$
14. $\frac{7}{10} - \frac{1}{4}$
15. $\frac{2}{3} - \frac{5}{8}$
16. $\frac{2}{5} - \frac{2}{12}$