

10 add and subtract fractions involving mixed numbers.

Examples

SAME DENOMINATORS

$$\frac{5}{8} + \frac{7}{8} = \frac{12}{8} = 1\frac{4}{8}$$

$$1\frac{3}{10} - \frac{6}{10} = \frac{13}{10} - \frac{6}{10} = \frac{7}{10}$$

DIFFERENT DENOMINATORS

$$\frac{3}{4} + \frac{7}{12} = \frac{9}{12} + \frac{7}{12} = \frac{16}{12} = 1\frac{4}{12}$$

$$1\frac{4}{9} - \frac{2}{3} = \frac{13}{9} - \frac{6}{9} = \frac{7}{9}$$

A

Work out

1 $\frac{5}{12} + \frac{1}{12}$

9 $\frac{5}{6} - \frac{4}{6}$

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

10 $\frac{7}{12} - \frac{2}{12}$

3 $\frac{1}{5} + \frac{3}{5}$

11 $\frac{4}{5} - \frac{3}{5}$

4 $\frac{8}{12} + \frac{2}{12}$

12 $\frac{3}{4} - \frac{2}{4}$

5 $\frac{1}{4} + \frac{2}{4}$

13 $\frac{3}{3} - \frac{1}{3}$

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

14 $\frac{11}{12} - \frac{6}{12}$

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

15 $\frac{4}{6} - \frac{2}{6}$

8 $\frac{4}{12} + \frac{4}{12}$

16 $\frac{5}{5} - \frac{1}{5}$

- 17 Four twelfths of the people on a bus are boys. Five twelfths are girls. What fraction are adults?

- 18 Four fifths of the chocolates in a box are left. A further two fifths are eaten. What fraction of the chocolates is left?

B

Work out

1 $\frac{1}{2} + \frac{3}{10}$

13 $\frac{5}{8} - \frac{1}{2}$

2 $\frac{2}{6} + \frac{3}{12}$

14 $\frac{7}{10} - \frac{3}{5}$

3 $\frac{1}{4} + \frac{5}{12}$

15 $\frac{2}{3} - \frac{1}{6}$

4 $\frac{4}{5} + \frac{3}{5}$

16 $\frac{13}{12} - \frac{3}{4}$

5 $\frac{2}{3} + \frac{2}{3}$

17 $\frac{3}{2} - \frac{7}{10}$

6 $\frac{7}{10} + \frac{9}{10}$

18 $\frac{8}{6} - \frac{7}{12}$

7 $\frac{4}{5} + \frac{3}{10}$

19 $1\frac{1}{6} - \frac{4}{6}$

8 $\frac{2}{3} + \frac{4}{9}$

20 $1\frac{3}{10} - \frac{5}{10}$

9 $\frac{1}{2} + \frac{11}{12}$

21 $1\frac{2}{7} - \frac{6}{7}$

10 $\frac{1}{2} + \frac{3}{4}$

22 $1\frac{1}{4} - \frac{3}{8}$

11 $\frac{3}{4} + \frac{5}{8}$

23 $1\frac{2}{5} - \frac{7}{10}$

12 $\frac{5}{6} + \frac{7}{12}$

24 $1\frac{1}{12} - \frac{2}{3}$

- 25 Victor has one and a half packets of flour. He uses five eighths of a packet. What fraction of a complete packet is left?

C

Work out

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

9 $\frac{2}{3} - \frac{1}{5}$

2 $\frac{2}{5} + \frac{1}{4}$

10 $\frac{3}{4} - \frac{1}{6}$

3 $\frac{1}{2} + \frac{3}{7}$

11 $\frac{1}{2} - \frac{2}{5}$

4 $\frac{2}{3} + \frac{4}{5}$

12 $\frac{7}{5} - \frac{3}{4}$

5 $\frac{5}{6} + \frac{3}{4}$

13 $1\frac{1}{2} - \frac{2}{3}$

6 $\frac{3}{5} + \frac{1}{2}$

14 $1\frac{3}{5} - \frac{5}{6}$

7 $\frac{3}{4} + \frac{2}{3}$

15 $1\frac{1}{4} - \frac{1}{3}$

8 $\frac{5}{6} + \frac{2}{5}$

16 $1\frac{3}{10} - \frac{2}{3}$

- 17 A football team wins two fifths of their matches and draws one third. What fraction of their matches are lost?

- 18 A quarter of a cake is eaten and the next day one third is eaten. What fraction of the cake is left?