

**TARGET** To 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?