

TARGET To add and subtract fractions and mixed numbers with different denominators.

Examples $\frac{3}{5} + \frac{7}{10} = \frac{6+7}{10} = \frac{13}{10} = 1\frac{3}{10}$ $\frac{11}{12} - \frac{3}{4} = \frac{11-9}{12} = \frac{2}{12} = \frac{1}{6}$

$2\frac{3}{7} + 1\frac{5}{7} = 3\frac{8}{7} = 4\frac{1}{7}$ $5\frac{3}{4} - 1\frac{1}{8} = 4\frac{6-1}{8} = 4\frac{5}{8}$

If the numerators cannot be subtracted change one whole one into a fraction.

$$4\frac{3}{10} - 2\frac{1}{2} = 2\frac{3-5}{10} = 1\frac{13-5}{10} = 1\frac{8}{10} = 1\frac{4}{5}$$

A

Copy and complete.

1 $\frac{4}{9} + \frac{1}{9} = \frac{\square}{9} = \frac{\square}{9}$

2 $\frac{23}{100} + \frac{39}{100} = \frac{\square}{100} = \frac{\square}{100}$

3 $\frac{3}{4} - \frac{1}{4} = \frac{\square}{4} = \frac{\square}{4}$

4 $\frac{5}{8} - \frac{3}{8} = \frac{\square}{8} = \frac{\square}{8}$

5 $\frac{3}{5} + \frac{4}{5} = \frac{\square}{5} = 1\frac{\square}{5}$

6 $\frac{7}{12} + \frac{7}{12} = \frac{\square}{12} = 1\frac{\square}{12}$

7 $1\frac{1}{6} - \frac{5}{6} = \frac{\square}{6} - \frac{5}{6} = \frac{\square}{6}$

8 $1\frac{3}{10} - \frac{7}{10} = \frac{\square}{10} - \frac{7}{10} = \frac{\square}{10}$

Work out

9 $\frac{1}{5} + \frac{2}{5}$ 13 $\frac{6}{7} + \frac{4}{7}$

10 $\frac{3}{8} + \frac{3}{8}$ 14 $\frac{3}{4} + \frac{3}{4}$

11 $\frac{99}{100} - \frac{12}{100}$ 15 $1\frac{1}{3} - \frac{2}{3}$

12 $\frac{7}{9} - \frac{5}{9}$ 16 $1\frac{4}{11} - \frac{9}{11}$

B

Continue to complete. Write answers in lowest terms or as mixed numbers where necessary.

1 $\frac{1}{2} + \frac{3}{8} = \frac{\square}{8} + \frac{3}{8} = \frac{\square}{8}$

2 $\frac{11}{12} - \frac{5}{6} = \frac{11}{12} - \frac{\square}{12} = \frac{\square}{12}$

3 $\frac{5}{9} + \frac{1}{3} = \frac{5+\square}{9} = \frac{\square}{9}$

4 $\frac{4}{5} - \frac{7}{10} = \frac{\square-7}{10} = \frac{\square}{10}$

5 $3\frac{2}{7} + 1\frac{3}{7} = 4\frac{\square+\square}{7} = \dots$

6 $1\frac{7}{11} + 2\frac{10}{11} = 3\frac{\square+\square}{11} = \dots$

7 $4\frac{61}{100} - 1\frac{37}{100} = 3\frac{\square+\square}{100} = \dots$

8 $7\frac{4}{9} - 3\frac{5}{9} = 4\frac{\square+\square}{9} = \dots$

Work out

9 $\frac{4}{10} + \frac{1}{2}$ 13 $1\frac{43}{100} + 5\frac{79}{100}$

10 $\frac{3}{4} + \frac{5}{12}$ 14 $3\frac{2}{9} + 1\frac{7}{9}$

11 $\frac{7}{8} - \frac{1}{4}$ 15 $4\frac{4}{5} - 2\frac{3}{5}$

12 $1\frac{1}{3} - \frac{5}{6}$ 16 $6\frac{7}{12} - 3\frac{11}{12}$

C

Work out

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

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

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

4 $\frac{9}{10} + \frac{2}{3}$

5 $\frac{7}{12} - \frac{1}{5}$

6 $\frac{9}{10} - \frac{3}{4}$

7 $1\frac{1}{6} - \frac{5}{8}$

8 $1\frac{1}{2} - \frac{4}{5}$

9 $2\frac{1}{3} + 1\frac{5}{12}$

10 $3\frac{57}{100} + 3\frac{3}{4}$

11 $5\frac{2}{5} + 2\frac{3}{10}$

12 $1\frac{3}{4} + 1\frac{7}{8}$

13 $3\frac{1}{2} - 1\frac{21}{100}$

14 $4\frac{3}{8} - 3\frac{5}{16}$

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

16 $5\frac{125}{1000} - 2\frac{4}{5}$

TARGET To add and subtract mixed numbers.

Examples $3\frac{2}{3} + 1\frac{4}{5} = 4\frac{10+12}{15} = 4\frac{22}{15} = 5\frac{7}{15}$

$$6\frac{3}{4} - 2\frac{7}{10} = 4\frac{15-14}{20} = 4\frac{1}{20}$$

If the numerators cannot be subtracted convert one whole one into a fraction.

$$5\frac{3}{8} - 3\frac{5}{6} = 2\frac{9-20}{24} = 1\frac{33-20}{24} = 1\frac{13}{24}$$

A

Copy and complete.

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

2 $\frac{2}{5} + \frac{3}{10} = \frac{\square}{10} + \frac{3}{10} = \frac{\square}{10}$

3 $\frac{3}{4} - \frac{5}{12} = \frac{\square}{12} - \frac{5}{12} = \frac{\square}{12}$

4 $\frac{1}{3} - \frac{1}{6} = \frac{\square}{6} - \frac{1}{6} = \frac{\square}{6}$

Work out

5 $\frac{1}{6} + \frac{5}{12}$ 13 $\frac{9}{10} - \frac{2}{5}$

6 $\frac{2}{10} + \frac{1}{2}$ 14 $\frac{1}{2} - \frac{1}{12}$

7 $\frac{1}{12} + \frac{2}{3}$ 15 $\frac{7}{12} - \frac{1}{4}$

8 $\frac{23}{100} + \frac{4}{10}$ 16 $\frac{5}{6} - \frac{1}{3}$

9 $\frac{3}{12} + \frac{2}{6}$ 17 $\frac{11}{12} - \frac{5}{6}$

10 $\frac{1}{2} + \frac{1}{8}$ 18 $\frac{3}{4} - \frac{1}{8}$

11 $\frac{1}{3} + \frac{4}{9}$ 19 $\frac{8}{10} - \frac{1}{2}$

12 $\frac{5}{8} + \frac{1}{4}$ 20 $\frac{7}{9} - \frac{2}{3}$

B

Copy and complete.

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

2 $1\frac{1}{4} + 2\frac{3}{5} = 3\frac{\square+\square}{20} = 3\frac{\square}{20}$

3 $3\frac{1}{2} - 1\frac{3}{8} = 2\frac{\square-3}{8} = 2\frac{\square}{8}$

4 $2\frac{3}{5} - 1\frac{1}{3} = 1\frac{\square-\square}{15} = 1\frac{\square}{15}$

Work out

5 $5\frac{7}{10} + 1\frac{19}{100}$ 13 $3\frac{3}{4} - 2\frac{1}{12}$

6 $2\frac{1}{12} + 1\frac{5}{6}$ 14 $2\frac{2}{3} - 1\frac{1}{6}$

7 $1\frac{1}{2} + 4\frac{3}{10}$ 15 $4\frac{1}{2} - 2\frac{5}{12}$

8 $3\frac{2}{3} + 2\frac{1}{9}$ 16 $7\frac{57}{100} - 4\frac{2}{10}$

9 $4\frac{2}{5} + 1\frac{5}{6}$ 17 $3\frac{2}{5} - 1\frac{1}{2}$

10 $1\frac{3}{4} + 3\frac{2}{3}$ 18 $5\frac{5}{9} - 2\frac{1}{4}$

11 $2\frac{5}{8} + 4\frac{9}{10}$ 19 $6\frac{2}{3} - 1\frac{9}{10}$

12 $5\frac{4}{7} + 2\frac{1}{2}$ 20 $8\frac{7}{8} - 3\frac{3}{5}$

C

Work out

1 $3\frac{5}{7} + 3\frac{1}{2}$

2 $5\frac{3}{10} + 4\frac{5}{6}$

3 $2\frac{4}{5} + 3\frac{5}{8}$

4 $6\frac{5}{9} + 2\frac{3}{4}$

5 $4\frac{2}{3} + 7\frac{6}{11}$

6 $9\frac{3}{4} + 5\frac{2}{7}$

7 $1\frac{7}{8} + 6\frac{1}{6}$

8 $7\frac{11}{12} + 2\frac{2}{5}$

9 $4\frac{1}{6} + 1\frac{3}{4}$

10 $5\frac{3}{10} - 3\frac{7}{12}$

11 $2\frac{3}{5} - 1\frac{2}{3}$

12 $8\frac{2}{7} - 4\frac{4}{5}$

13 $9\frac{1}{2} - 2\frac{8}{9}$

14 $6\frac{1}{4} - 3\frac{9}{10}$

15 $3\frac{2}{3} - 1\frac{6}{7}$

16 $7\frac{5}{12} - 2\frac{5}{8}$