

Adding and Subtracting Fractions — 2

Remember that to add or subtract fractions the denominators must be the same. Here you'll have to use equivalent fractions to make the denominators equal before you do any adding or subtracting.

Example

What is $\frac{1}{4} + \frac{5}{8}$?

Write $\frac{1}{4}$ as a number of eighths. $\frac{1}{4} = \frac{2}{8}$

Now you can add them together. $\frac{1}{4} + \frac{5}{8} = \frac{2}{8} + \frac{5}{8} = \frac{7}{8}$

Set A

Find the missing digits:

1 $\frac{1}{2} + \frac{1}{4} = \frac{\square}{4} + \frac{1}{4} = \frac{\square}{4}$

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

3 $\frac{3}{8} + \frac{1}{4} = \frac{3}{8} + \frac{\square}{8} = \frac{\square}{8}$

4 $\frac{5}{6} - \frac{1}{2} = \frac{5}{6} - \frac{\square}{6} = \frac{\square}{6}$

5 $\frac{9}{10} - \frac{3}{5} = \frac{9}{10} - \frac{\square}{10} = \frac{\square}{10}$

Work out:

6 $\frac{7}{9} - \frac{1}{3}$

7 $\frac{1}{2} + \frac{1}{10}$

Write down the rule for each of these sequences:

8 0, $\frac{1}{6}$, $\frac{1}{3}$, $\frac{3}{6}$

9 1, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$

Work out, giving your answers as improper fractions:

10 $\frac{1}{2} + \frac{7}{8}$

11 $\frac{2}{3} + \frac{3}{6}$

12 $\frac{15}{4} - \frac{1}{2}$

13 $\frac{4}{5} + \frac{9}{10}$

14 $\frac{19}{8} - \frac{3}{4}$

Set B

Find the missing digits:

1 $\frac{3}{4} - \frac{5}{8} = \frac{\square}{8}$

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

3 $\frac{2}{3} + \frac{1}{9} = \frac{\square}{9}$

4 $\frac{10}{12} - \frac{1}{4} = \frac{\square}{12}$

5 $\frac{1}{2} - \frac{3}{10} = \frac{\square}{10}$

Work out:

6 $\frac{7}{8} - \frac{1}{2}$

7 $\frac{2}{6} + \frac{7}{12}$

Write down the rule for each of these sequences:

8 $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{2}{4}$

9 $\frac{7}{10}$, $\frac{1}{2}$, $\frac{3}{10}$, $\frac{1}{10}$

Work out, giving your answers as mixed numbers:

10 $\frac{5}{6} + \frac{1}{2}$

11 $\frac{7}{9} + \frac{2}{3}$

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

13 $1\frac{3}{8} - \frac{1}{4}$

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

Set C

Work out:

1 $\frac{11}{15} - \frac{1}{5}$

2 $\frac{3}{8} + \frac{9}{16}$

3 $\frac{2}{3} - \frac{7}{12}$

4 $\frac{3}{10} + \frac{37}{100}$

5 $\frac{7}{10} - \frac{21}{100}$

Write down the rule for each of these sequences:

6 $\frac{1}{6}$, $\frac{5}{12}$, $\frac{2}{3}$, $\frac{11}{12}$

7 $\frac{13}{16}$, $\frac{5}{8}$, $\frac{7}{16}$, $\frac{1}{4}$

Work out, giving your answers as mixed numbers:

8 $\frac{7}{14} + \frac{5}{7}$

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

Find the missing digits:

10 $\frac{9}{6} - \frac{\square}{3} = \frac{5}{6}$

11 $\frac{2}{9} + \frac{\square}{27} = \frac{11}{27}$

12 $1\frac{\square}{8} - \frac{1}{4} = 1\frac{1}{8}$

13 $1\frac{9}{10} - \frac{\square}{5} = 1\frac{3}{10}$

14 $2\frac{11}{12} + \frac{\square}{6} = 3\frac{5}{12}$