Adding and Subtracting Fractions — 1

Adding and subtracting fractions is easy when the denominators are the same.
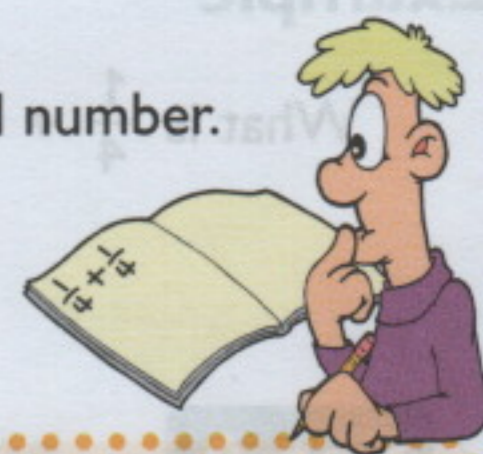You just add or subtract the numerators and leave the denominator as it was.

Examples

What is $\frac{7}{12} + \frac{6}{12}$?

$$\frac{7}{12} + \frac{6}{12} = \frac{13}{12} \text{ or } 1\frac{1}{12}$$

Work out $4\frac{2}{10} - \frac{3}{10}$. Give your answer as a mixed number.

$$4\frac{2}{10} = \frac{42}{10} \qquad \frac{42}{10} - \frac{3}{10} = \frac{39}{10} = 3\frac{9}{10}$$

Set A

Work out:

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

2. $\frac{8}{10} - \frac{4}{10}$

3. $\frac{4}{11} + \frac{6}{11}$

4. $\frac{12}{14} - \frac{7}{14}$

5. $\frac{8}{17} + \frac{8}{17}$

Work out, giving your answers as improper fractions:

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

7. $\frac{23}{8} - \frac{8}{8}$

Write down the rule for each of these sequences:

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

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

Find the missing digits:

10. $\frac{7}{8} + \frac{6}{8} = \frac{\square}{8} = 1\frac{\square}{8}$

11. $\frac{19}{7} - \frac{10}{7} = \frac{\square}{7} = 1\frac{\square}{7}$

12. $\frac{7}{9} + \frac{6}{9} = \square\frac{4}{9}$

13. $\frac{19}{6} - \frac{2}{6} = \square\frac{5}{6}$

14. $\frac{4}{13} + \frac{11}{13} = \square\frac{\square}{13}$

Set B

Work out, giving your answers as improper fractions:

1. $\frac{9}{10} + \frac{4}{10}$

2. $\frac{22}{7} - \frac{9}{7}$

3. $\frac{32}{20} - \frac{9}{20}$

4. $\frac{21}{18} + \frac{16}{18}$

5. $\frac{90}{100} + \frac{37}{100}$

Find the missing digits:

6. $\frac{8}{9} + \frac{7}{9} = 1\frac{\square}{9}$

7. $\frac{42}{5} - \frac{25}{5} = \square\frac{\square}{5}$

Write down the rule for each of these sequences:

8. $\frac{1}{5}$, $\frac{3}{5}$, 1, $\frac{7}{5}$

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

Work out, giving your answers as mixed numbers:

10. $\frac{17}{6} - \frac{6}{6}$

11. $\frac{15}{10} + \frac{16}{10}$

12. $4\frac{7}{9} - \frac{5}{9}$

13. $3\frac{3}{5} + \frac{4}{5}$

14. $6\frac{2}{7} - \frac{5}{7}$

Set C

Find the missing digits:

1. $\frac{15}{4} - \frac{9}{4} = \square\frac{\square}{4}$

2. $\frac{8}{5} + \frac{13}{5} = \square\frac{\square}{5}$

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

4. $\frac{\square}{6} - \frac{14}{6} = 1\frac{1}{6}$

5. $7\frac{1}{7} + \frac{\square}{7} = 9\frac{2}{7}$

Write down the rule for each of these sequences:

6. $1\frac{2}{7}$, $1\frac{4}{7}$, $1\frac{6}{7}$, $2\frac{1}{7}$

7. 6, $4\frac{3}{4}$, $3\frac{1}{2}$, $2\frac{1}{4}$

Work out, giving your answers as mixed numbers:

8. $3 - \frac{7}{10}$

9. $1\frac{4}{7} + \frac{6}{7}$

Work out, giving your answers as mixed numbers:

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

11. $5 - \frac{10}{3}$

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

13. $4\frac{3}{8} + \frac{12}{8}$

14. $4\frac{2}{6} - \frac{9}{6}$

I can add and subtract fractions with the same denominator.