Adding/subtracting fractions

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. $\frac{2}{7} + \frac{3}{7}$ [2 marks]

The denominators match; add the counts of sevenths.

Answer: $\frac{5}{7}$

2. $\frac{1}{6} + \frac{1}{4}$ [2 marks]

$\frac{2}{12} + \frac{3}{12} = \frac{5}{12}$.

Answer: $\frac{5}{12}$

3. $\frac{7}{8} - \frac{1}{4}$ [2 marks]

$\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$.

Answer: $\frac{5}{8}$

4. $1\frac{2}{3} + \frac{5}{6}$ [2 marks]

$\frac{5}{3} + \frac{5}{6} = \frac{15}{6} = \frac{5}{2}$.

Answer: $2\frac{1}{2}$

5. $3\frac{1}{5} - 1\frac{3}{4}$ [3 marks]

$\frac{16}{5} - \frac{7}{4} = \frac{64}{20} - \frac{35}{20} = \frac{29}{20}$.

Answer: $1\frac{9}{20}$

6. A bottle holds $\frac{3}{4}$ L. You pour out $\frac{2}{5}$ L. What remains? [3 marks]

$\frac{3}{4} - \frac{2}{5} = \frac{15}{20} - \frac{8}{20} = \frac{7}{20}$.

Answer: $\frac{7}{20}$ L