



Grade 4

Mathematics

Adding and Subtracting Common Fractions

Question 1: Adding and subtracting common fractions

- $\frac{5}{6} - \frac{1}{6}$
- $\frac{4}{6} + \frac{1}{6}$
- $\frac{1}{2} - \frac{1}{4}$
- $\frac{6}{10} + \frac{1}{5}$
- $\frac{3}{4} - \frac{1}{3}$
- $\frac{7}{10} - \frac{2}{5}$
- $\frac{2}{9} + \frac{5}{9}$
- $\frac{1}{5} + \frac{1}{3}$
- $\frac{1}{6} + \frac{1}{4}$
- $\frac{2}{5} - \frac{1}{7}$

Handwritten solutions for Question 1:

- $\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$ or $\frac{2}{3}$ if simplified.
- $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$
- $\frac{1 \times 2}{2 \times 2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$
- $\frac{6}{10} + \frac{1 \times 2}{5 \times 2} = \frac{6}{10} + \frac{2}{10} = \frac{8}{10}$ (or $\frac{4}{5}$)
- $\frac{3 \times 3}{4 \times 3} - \frac{1 \times 4}{3 \times 4} = \frac{9}{12} - \frac{4}{12} = \frac{5}{12}$
- $\frac{7}{10} - \frac{2 \times 2}{5 \times 2} = \frac{7}{10} - \frac{4}{10} = \frac{3}{10}$
- $\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$
- $\frac{1 \times 3}{5 \times 3} + \frac{1 \times 5}{3 \times 5} = \frac{3}{15} + \frac{5}{15} = \frac{8}{15}$
- $\frac{1 \times 2}{6 \times 2} + \frac{1 \times 3}{4 \times 3} = \frac{2}{12} + \frac{3}{12} = \frac{5}{12}$
- $\frac{2 \times 7}{5 \times 7} - \frac{1 \times 5}{7 \times 5} = \frac{14}{35} - \frac{5}{35} = \frac{9}{35}$

Question 2: Words problems – adding and subtracting common fractions

- Darian is joining two pieces of fabric from the leftovers on the end of rolls of fabric to make a bigger piece. One piece is $\frac{2}{5}$ or a meter and the other piece is $\frac{1}{4}$ of a meter. Assuming that he didn't lose any length in the sewing process, how long would his new piece be?
- Griffin's gran bought him a meter long piece of liquorice. He ate a bit and had $\frac{9}{10}$ of the meter left. If he eats $\frac{3}{5}$ of a meter the next day, how much will he have left?
- Jordan's mom pays him for collecting pine nuts. They take long to shell and don't take up much space. If he collects $\frac{1}{3}$ of a cup on Saturday and $\frac{1}{4}$ of a cup on Sunday, how much will he have collected?
- Shiloh has to subtract four sevenths from five sixths. What should her answer be?

Handwritten solutions for Question 2:

- $\frac{2 \times 4}{5 \times 4} + \frac{1 \times 5}{4 \times 5} = \frac{8}{20} + \frac{5}{20} = \frac{13}{20}$
Darian's fabric would be $\frac{13}{20}$ of a meter long.
- $\frac{9}{10} - \frac{3 \times 2}{5 \times 2} = \frac{9}{10} - \frac{6}{10} = \frac{3}{10}$
Griffin would have $\frac{3}{10}$ of a meter left.
- $\frac{1 \times 4}{3 \times 4} + \frac{1 \times 3}{4 \times 3} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$
Jordan will have collected $\frac{7}{12}$ of a cup.
- $\frac{5 \times 7}{6 \times 7} - \frac{4 \times 6}{7 \times 6} = \frac{35}{42} - \frac{24}{42} = \frac{11}{42}$
Her answer should be $\frac{11}{42}$.