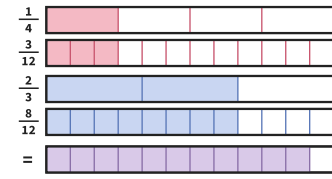


# Adding and Subtracting Fractions

ANSWERS

1

Work out  $\frac{1}{4} + \frac{2}{3}$ . Give your answer in its simplest form.



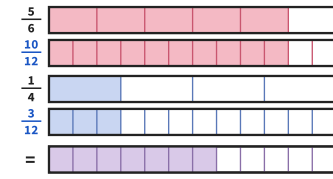
$$\frac{1}{4} = \frac{3}{12}, \quad \frac{2}{3} = \frac{8}{12}$$

$$\frac{3}{12} + \frac{8}{12} = \frac{11}{12}$$

Answer  $\frac{11}{12}$

2

Work out  $\frac{5}{6} - \frac{1}{4}$ . Give your answer in its simplest form.



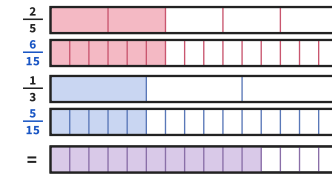
$$\frac{5}{6} = \frac{10}{12}, \quad \frac{1}{4} = \frac{3}{12}$$

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

Answer  $\frac{7}{12}$

3

Work out  $\frac{2}{5} + \frac{1}{3}$ . Give your answer in its simplest form.



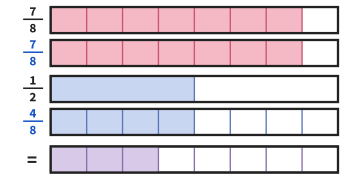
$$\frac{2}{5} = \frac{6}{15}, \quad \frac{1}{3} = \frac{5}{15}$$

$$\frac{6}{15} + \frac{5}{15} = \frac{11}{15}$$

Answer  $\frac{11}{15}$

4

Work out  $\frac{7}{8} - \frac{1}{2}$ . Give your answer in its simplest form.



$$\frac{7}{8} = \frac{7}{8}, \quad \frac{1}{2} = \frac{4}{8}$$

$$\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$$

Answer  $\frac{3}{8}$

5

Work out  $\frac{3}{4} + \frac{1}{6}$ . Give your answer in its simplest form.

Common denominator  $12$

$$\frac{3}{4} = \frac{9}{12}, \quad \frac{1}{6} = \frac{2}{12}$$

$$\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$$

Answer  $\frac{11}{12}$

6

Work out  $\frac{4}{9} - \frac{1}{6}$ . Give your answer in its simplest form.

Common denominator  $18$

$$\frac{4}{9} = \frac{8}{18}, \quad \frac{1}{6} = \frac{3}{18}$$

$$\frac{8}{18} - \frac{3}{18} = \frac{5}{18}$$

Answer  $\frac{5}{18}$

7

Ali eats  $\frac{1}{4}$  of a cake and Ben eats  $\frac{2}{5}$  of it. What fraction have they eaten altogether?

$$\frac{5}{20} + \frac{8}{20}$$

Answer  $\frac{13}{20}$

8

A jug is  $\frac{5}{6}$  full. Then  $\frac{1}{4}$  of a jug is poured out. What fraction of the jug is left?

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

Answer  $\frac{7}{12}$

# Adding and Subtracting Fractions *further practice*

ANSWERS

9

Work out  $\frac{5}{6} - \frac{3}{8}$ . Give your answer in its simplest form.

$$\frac{20}{24} - \frac{9}{24}$$

Answer  $\frac{11}{24}$

10

Work out  $\frac{1}{6} + \frac{7}{12}$ . Give your answer in its simplest form.

$$\frac{2}{12} + \frac{7}{12} = \frac{9}{12}$$

Answer  $\frac{3}{4}$

11

Find the missing fraction.

$$\frac{2}{5} + \boxed{\frac{3}{10}} = \frac{7}{10}$$

$$\frac{7}{10} - \frac{2}{5} = \frac{7}{10} - \frac{4}{10}$$

12

Which is bigger,  $\frac{1}{2} + \frac{1}{5}$  or  $\frac{3}{4}$ ? Show how you know.

$$\frac{1}{2} + \frac{1}{5} = \frac{7}{10} = \frac{14}{20}, \quad \frac{3}{4} = \frac{15}{20}$$

Answer  $\frac{3}{4}$

13

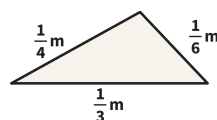
Sam spends  $\frac{1}{3}$  of his pocket money on a book and  $\frac{2}{5}$  of his pocket money on a cinema ticket. What fraction of his pocket money does he have left?

$$\frac{5}{15} + \frac{6}{15} = \frac{11}{15}, \quad 1 - \frac{11}{15}$$

Answer  $\frac{4}{15}$

14

Work out the perimeter of this triangle. Give your answer in its simplest form.



$$\frac{3}{12} + \frac{4}{12} + \frac{2}{12} = \frac{9}{12}$$

Answer  $\frac{3}{4} \text{ m}$

15

Ria spends  $\frac{1}{4}$  of an hour on maths homework and  $\frac{1}{3}$  of an hour on science homework. How long does she spend on the two subjects altogether?

as a fraction of an hour  $\frac{7}{12}$

in minutes  $35 \text{ minutes}$

16

Is  $\frac{1}{2} + \frac{3}{5}$  more than 1 or less than 1? Explain how you know.

$$\frac{3}{5} > \frac{1}{2}, \text{ so the total} > \frac{1}{2} + \frac{1}{2}$$

Answer  $\text{More, it is } \frac{11}{10}$