

# Adding and Subtracting Fractions

ANSWERS

1

Work out

$$3\frac{1}{4} - 1\frac{5}{6}$$

$$3\frac{3}{12} - 1\frac{10}{12}$$

$$= 2\frac{15}{12} - 1\frac{10}{12}$$

Answer  $1\frac{5}{12}$

2

Find the missing number.

$$\frac{2}{3} + \frac{\square}{5} = 1\frac{1}{15}$$

$$1\frac{1}{15} = \frac{16}{15} \text{ and } \frac{2}{3} = \frac{10}{15}$$

$$\frac{16}{15} - \frac{10}{15} = \frac{6}{15} = \frac{2}{5}$$

Answer  $2$

3

Fill in the boxes with two different whole numbers less than 10.

$$\frac{7}{12} = \frac{1}{\square} + \frac{1}{\square}$$

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

Answer  $\frac{1}{3} + \frac{1}{4}$

4

Work out

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32}$$

$$\text{in 32nds: } 16 + 8 + 4 + 2 + 1 = 31$$

$$\text{or } 1 - \frac{1}{32}$$

Answer  $\frac{31}{32}$

5

Work out

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

$$\frac{8}{20} - \frac{15}{20} + \frac{2}{20}$$

$$= -\frac{5}{20} = -\frac{1}{4}$$

Answer  $-\frac{1}{4}$

6

These numbers are equally spaced on a number line.  
Find the missing numbers.

$$\frac{2}{5}, \square, \square, 1\frac{3}{10}$$

$$\frac{4}{10} \text{ to } \frac{13}{10} \text{ is } \frac{9}{10}, \text{ three equal steps}$$

$$\text{each step is } \frac{3}{10}$$

Answer  $\frac{7}{10}$  and  $1$

7

A ribbon is cut into three pieces.

The first is  $\frac{3}{8}$  of the ribbon and the second is  $\frac{1}{6}$  of the ribbon shorter than the first. What fraction of the ribbon is the third?

$$\text{second: } \frac{9}{24} - \frac{4}{24} = \frac{5}{24}$$

$$\text{third: } \frac{24}{24} - \frac{9}{24} - \frac{5}{24} = \frac{10}{24}$$

Answer  $\frac{5}{12}$

8

Every row, column and diagonal adds up to the same total. Find the fraction marked ?

|               |                |               |
|---------------|----------------|---------------|
| $\frac{1}{6}$ |                | $\frac{1}{2}$ |
|               | $\frac{5}{12}$ |               |
| $\frac{1}{3}$ | $\frac{1}{4}$  | $\frac{2}{3}$ |

$$\text{total: } \frac{1}{6} + \frac{5}{12} + \frac{2}{3} = 1\frac{1}{4}$$

$$\text{bottom left } \frac{1}{3}, \text{ so } ? = 1\frac{1}{4} - \frac{1}{3} - \frac{5}{12}$$

Answer  $\frac{1}{2}$