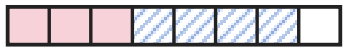
Adding and subtracting fractions

ANSWERS

1

Work out $\frac{3}{8} + \frac{4}{8}$

shade 4 more eighths



the denominators are the same

$= \frac{3 + 4}{8}$

add the numerators, keep the denominator

$= \frac{7}{8}$

Answer $\frac{7}{8}$

2

Work out $\frac{7}{9} - \frac{2}{9}$

$= \frac{7 - 2}{9}$

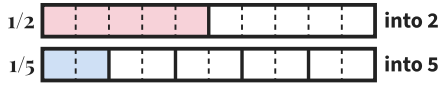
$= \frac{5}{9}$

Answer $\frac{5}{9}$

3

Work out $\frac{1}{2} + \frac{1}{5}$

cut both bars into 10 equal pieces



make the denominators the same

$\frac{1 \times 5}{2 \times 5} + \frac{1 \times 2}{5 \times 2}$

now add or subtract the numerators

$= \frac{5 + 2}{10}$

Answer $\frac{7}{10}$

4

Work out $\frac{1}{4} + \frac{1}{6}$

cut both bars into 12 equal pieces



make the denominators the same

$\frac{1 \times 3}{4 \times 3} + \frac{1 \times 2}{6 \times 2}$

now add or subtract the numerators

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

Answer $\frac{5}{12}$

5

Work out $\frac{4}{5} - \frac{1}{3}$

make the denominators the same

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

now add or subtract the numerators

$= \frac{12 - 5}{15}$

Answer $\frac{7}{15}$

6

Work out $\frac{1}{10} + \frac{2}{5}$

Give your answer in its simplest form.

$\frac{1}{10} + \frac{2 \times 2}{5 \times 2}$

$= \frac{1 + 4}{10}$

Answer $\frac{1}{2}$

7

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

$\frac{8}{12} + \frac{9}{12} = \frac{17}{12}$

12 goes into 17 once, 5 left over

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

8

Jamal writes $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$.

Explain why his answer must be wrong.

Then work out the right answer.

$\frac{3}{7}$ is less than $\frac{1}{2}$ on its own

$\frac{4}{10} + \frac{5}{10}$

Answer $\frac{9}{10}$

Adding and subtracting fractions *further practice*

ANSWERS

9

Work out $\frac{5}{6} - \frac{1}{3}$. Give your answer in its simplest form.

$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$

Answer $\frac{1}{2}$

10

Work out $1\frac{1}{4} + 2\frac{2}{5}$

$1 + 2 = 3, \quad \frac{5}{20} + \frac{8}{20} = \frac{13}{20}$

Answer $3\frac{13}{20}$

11

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

$3 - 1 = 2, \quad \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$

Answer $2\frac{7}{12}$

12

Find the missing fraction.

$\frac{3}{8} + \boxed{\frac{3}{8}} = \frac{3}{4}$

$\frac{3}{4} - \frac{3}{8} = \frac{6}{8} - \frac{3}{8}$

Answer $\frac{3}{8}$

13

A ribbon is $2\frac{1}{2}$ m long. Lena cuts $\frac{3}{4}$ m off it. How long is the ribbon now?

$\frac{10}{4} - \frac{3}{4} = \frac{7}{4}$

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

14

In a class vote, $\frac{1}{4}$ of the class pick football and $\frac{2}{5}$ of the class pick netball. The rest pick hockey. What fraction of the class pick hockey?

$\frac{5}{20} + \frac{8}{20} = \frac{13}{20}, \quad 1 - \frac{13}{20}$

Answer $\frac{7}{20}$

15

A rectangle is $1\frac{1}{2}$ cm long and $\frac{3}{4}$ cm wide. Work out its perimeter.

$\frac{6}{4} + \frac{6}{4} + \frac{3}{4} + \frac{3}{4} = \frac{18}{4}$

Answer $4\frac{1}{2}$ cm

16

Is $\frac{3}{8} + \frac{2}{5}$ more or less than $\frac{3}{4}$? Show how you know.

$\frac{15}{40} + \frac{16}{40} = \frac{31}{40}, \quad \frac{3}{4} = \frac{30}{40}$

Answer More