

Year 5: Adding and subtracting fractions: answers

Year 5 - Equivalent Fractions and Mixed Numbers - Lesson 6.5

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch06-fractions/adding-and-subtracting-fractions/

Exercise 6E Adding and subtracting fractions

Non-calculator

1 Work out each addition. Give each answer in its simplest form.

(a) $\frac{2}{7} + \frac{3}{7}$

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

(b) $\frac{1}{9} + \frac{4}{9}$

Answer: $\frac{5}{9}$

(c) $\frac{5}{12} + \frac{3}{12}$

Answer: $\frac{2}{3}$

(d) $\frac{3}{10} + \frac{4}{10}$

Answer: $\frac{7}{10}$

2 Work out each subtraction. Give each answer in its simplest form.

(a) $\frac{7}{9} - \frac{4}{9}$

Answer: $\frac{1}{3}$

(b) $\frac{8}{10} - \frac{3}{10}$

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

(c) $\frac{5}{6} - \frac{1}{6}$

Answer: $\frac{2}{3}$

(d) $\frac{11}{12} - \frac{7}{12}$

Answer: $\frac{1}{3}$

3 Work out each addition. Write the answers as mixed numbers.

(a) $\frac{3}{4} + \frac{3}{4}$

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

(b) $\frac{4}{5} + \frac{3}{5}$

Answer: $1\frac{2}{5}$

(c) $\frac{5}{8} + \frac{7}{8}$

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

(d) $\frac{7}{10} + \frac{9}{10}$

Answer: $1\frac{3}{5}$

4 Look at each picture. Write the calculation and work out the answer.

(a)



Blue part + orange part = ?

Answer: $\frac{7}{8}$

(b)



Seven tenths are shaded. The crossed parts are taken away. How much is left?

Answer: $\frac{2}{5}$

5 Work out each addition. Give each answer in its simplest form.

(a) $\frac{1}{2} + \frac{1}{4}$

Answer: $\frac{3}{4}$

(b) $\frac{1}{3} + \frac{1}{6}$

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

(c) $\frac{3}{10} + \frac{1}{5}$

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

(d) $\frac{5}{12} + \frac{1}{3}$

Answer: $\frac{3}{4}$

6 Work out each subtraction. Give each answer in its simplest form.

(a) $\frac{3}{4} - \frac{1}{8}$

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

(b) $\frac{5}{6} - \frac{1}{3}$

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

(c) $\frac{7}{10} - \frac{2}{5}$

Answer: $\frac{3}{10}$

(d) $\frac{3}{5} - \frac{1}{10}$

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

7 Work out each subtraction from a whole.

(a) $1 - \frac{1}{4}$

Answer: $\frac{3}{4}$

(b) $1 - \frac{3}{5}$

Answer: $\frac{2}{5}$

(c) $1 - \frac{7}{12}$

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

(d) $2 - \frac{3}{4}$

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

8 Find each missing fraction.

(a) $\frac{2}{5} + \frac{?}{5} = \frac{4}{5}$

Answer: $\frac{2}{5}$

(b) $\frac{1}{4} + \frac{?}{8} = \frac{5}{8}$

Answer: $\frac{3}{8}$

(c) $\frac{?}{4} - \frac{1}{4} = \frac{1}{2}$

Answer: $\frac{3}{4}$

(d) $\frac{7}{8} - \frac{?}{8} = \frac{3}{8}$

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

(e) $1 - \frac{?}{7} = \frac{2}{7}$

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

9 Ella eats one quarter of a pie. Omar eats three eighths of the same pie.

(a) What fraction of the pie do they eat altogether?

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

(b) What fraction of the pie is left?

Answer: $\frac{3}{8}$

10 Solve each problem.

(a) Ben runs $\frac{3}{4}$ km on Monday and $\frac{5}{8}$ km on Tuesday. How far does he run altogether?

Answer: $1\frac{3}{8}$ km

(b) Zainab uses $\frac{2}{3}$ m of ribbon and then $\frac{1}{6}$ m. How much ribbon does she use?

Answer: $\frac{5}{6}$ m

11 Amy says, " $\frac{1}{2} + \frac{1}{3} = \frac{2}{5}$." Explain her mistake and work out the correct answer.

Answer: She added the denominators. $\frac{5}{6}$

12 Jack says, " $\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$." What is wrong with his answer? What is the correct answer?

Answer: He added the denominators. $1\frac{1}{2}$

13 Which two fractions in this list add up to 1? Find two pairs. $\frac{1}{4}$ $\frac{3}{8}$ $\frac{5}{8}$ $\frac{1}{2}$ $\frac{3}{4}$

Answer: $\frac{1}{4}$ and $\frac{3}{4}$, $\frac{3}{8}$ and $\frac{5}{8}$

14 Always, sometimes or never?

(a) When you add two proper fractions the answer is less than 1.

Answer: Sometimes

(b) When you take a fraction away from 1 the answer is less than 1.

Answer: Always

15 Sofia says, " $\frac{1}{2} + \frac{1}{3} + \frac{1}{6} = 1$." Show that she is correct.

Answer: Yes: all three are sixths, and $3 + 2 + 1 = 6$, which is a whole.

16 Challenge! Find the missing fraction. $\frac{1}{3} + \frac{?}{12} = \frac{3}{4}$

Answer: $\frac{1}{3}$

