

Year 4: Adding and subtracting fractions: answers

Year 4 - Fractions - Lesson 5.4

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch05-fractions/adding-and-subtracting-fractions/

Exercise 5D Adding and subtracting fractions

Non-calculator

1 The bars show two fractions. Add them.

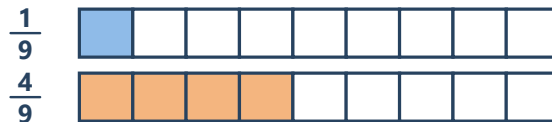
(a)



$$\frac{2}{7} + \frac{3}{7} =$$

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

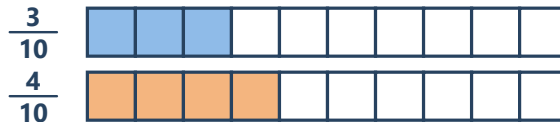
(b)



$$\frac{1}{9} + \frac{4}{9} =$$

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

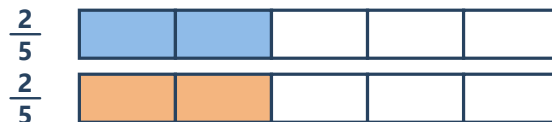
(c)



$$\frac{3}{10} + \frac{4}{10} =$$

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

(d)



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

Answer: $\frac{4}{5}$

2 Quick-fire! Add the fractions.

(a) $\frac{1}{3} + \frac{1}{3} =$

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

(b) $\frac{1}{4} + \frac{2}{4} =$

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

(c) $\frac{2}{5} + \frac{2}{5} =$

Answer: $\frac{4}{5}$

(d) $\frac{1}{6} + \frac{4}{6} =$

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

(e) $\frac{3}{7} + \frac{4}{7} =$

Answer: 1

(f) $\frac{5}{12} + \frac{6}{12} =$

Answer: $\frac{11}{12}$

3 Quick-fire! Subtract the fractions.

(a) $\frac{3}{4} - \frac{2}{4} =$

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

(b) $\frac{4}{5} - \frac{1}{5} =$

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

(c) $\frac{5}{6} - \frac{4}{6} =$

Answer: $\frac{1}{6}$

(d) $\frac{7}{8} - \frac{2}{8} =$

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

(e) $\frac{9}{10} - \frac{2}{10} =$

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

(f) $\frac{11}{12} - \frac{4}{12} =$

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

4 What must be added to each fraction to make 1 whole?

(a) $\frac{3}{7} + ? = 1$

Answer: $\frac{4}{7}$

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

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

(c) $\frac{4}{9} + ? = 1$

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

(d) $\frac{7}{10} + ? = 1$

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

(e) $\frac{5}{12} + ? = 1$

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

5 Work out each subtraction from 1.

(a) $1 - \frac{2}{5} =$

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

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

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

(c) $1 - \frac{5}{8} =$

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

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

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

(e) $1 - \frac{1}{6} =$

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

6 Find the missing top numbers.

(a) $\frac{\boxed{?}}{9} + \frac{4}{9} = \frac{7}{9}$

Answer: 3

(b) $\frac{3}{10} + \frac{?}{10} = \frac{8}{10}$

Answer: 5

(c) $\frac{7}{8} - \frac{?}{8} = \frac{2}{8}$

Answer: 5

(d) $\frac{?}{12} - \frac{5}{12} = \frac{4}{12}$

Answer: 9

(e) $\frac{2}{6} + \frac{?}{6} = \frac{5}{6}$

Answer: 3

(f) $\frac{9}{10} - \frac{?}{10} = \frac{4}{10}$

Answer: 5

7 Add three fractions.

(a) $\frac{1}{9} + \frac{2}{9} + \frac{2}{9} =$

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

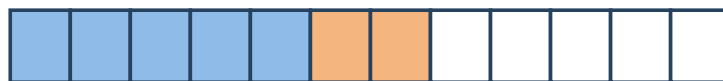
(b) $\frac{2}{10} + \frac{1}{10} + \frac{4}{10} =$

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

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

Answer: 1

8 A chocolate bar has 12 equal pieces. Amir eats $\frac{5}{12}$ of the bar and Bea eats $\frac{2}{12}$ of the bar.



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

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

(b) What fraction of the bar is left?

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

9 A water tank is full at the start of the week. On Monday $\frac{3}{8}$ of the water is used. On Tuesday $\frac{2}{8}$ of the water is used.

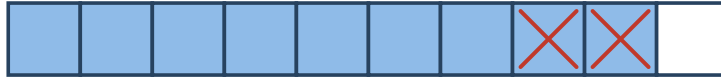
(a) What fraction of the water is used on the two days?

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

(b) What fraction of the tank is left?

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

10 Priya has $\frac{9}{10}$ of a bottle of juice. She drinks $\frac{2}{10}$ of the bottle. What fraction of the bottle is left?



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

11 Ben says, " $\frac{2}{5} + \frac{1}{5} = \frac{3}{10}$." What mistake has Ben made? What is the correct answer?

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

12 Which two pairs of fractions add up to exactly 1 whole? Tick **two** boxes. A $\frac{3}{8} + \frac{5}{8}$ B $\frac{2}{6} + \frac{3}{6}$ C $\frac{7}{10} + \frac{3}{10}$ D $\frac{4}{9} + \frac{4}{9}$

Answer: A and C

13 Always, sometimes or never? When you add two fractions with the same bottom number, the answer is less than 1.

Answer: Sometimes

14 Two fractions each have a bottom number of 9. Both top numbers are whole numbers more than 0. The fractions add up to $\frac{7}{9}$. Write all the possible pairs of top numbers. (Order does not matter.)

Answer: 1 and 6, 2 and 5, 3 and 4