

# Grade 5 - Adding and Subtracting Fractions with Unlike Denominators - Worksheet

Common Core 5.NF.A.1, 5.NF.A.2 · [maths-pdf.fr/en/](https://maths-pdf.fr/en/)

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

These 20 problems practice adding and subtracting fractions and mixed numbers with unlike denominators, as listed in standards 5.NF.A.1 and 5.NF.A.2. Early problems use bars and number lines. Later problems ask for regrouping and for estimates with benchmark fractions.

The last six problems are word problems about pizza, hiking, ribbon, baking, practice time, and apples. Simplify each answer and write improper fractions as mixed numbers.

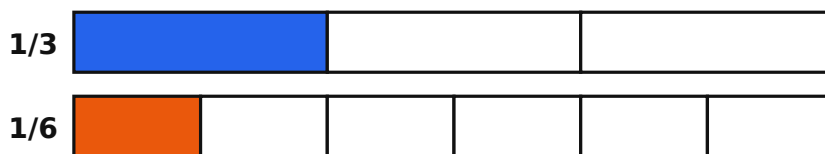
**Grade 5** · Common Core State Standards: **5.NF.A.1, 5.NF.A.2**

## Exercise 1 - Halves and fourths

Find  $\frac{1}{2} + \frac{1}{4}$ .

## Exercise 2 - Thirds and sixths

Use the bars to add  $\frac{1}{3} + \frac{1}{6}$ .



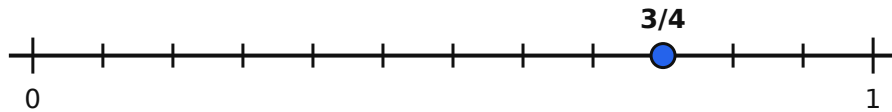
The bars show one third and one sixth.

## Exercise 3 - Fifths and halves

Find  $\frac{2}{5} + \frac{1}{2}$ .

#### Exercise 4 - Fourths minus thirds

Find  $\frac{3}{4} - \frac{1}{3}$ . The number line starts at the first fraction.



Start at  $\frac{3}{4}$  and move back  $\frac{1}{3}$ .

#### Exercise 5 - Sixths minus fourths

Find  $\frac{5}{6} - \frac{1}{4}$ .

#### Exercise 6 - Sum greater than 1

Find  $\frac{2}{3} + \frac{3}{4}$ .

#### Exercise 7 - Eighths minus sixths

Find  $\frac{7}{8} - \frac{1}{6}$ .

#### Exercise 8 - Tenths and fifteenths

Find  $\frac{3}{10} + \frac{4}{15}$ .

#### Exercise 9 - Add mixed numbers

Find  $1\frac{1}{2} + 2\frac{1}{3}$ .

#### Exercise 10 - Regroup the fraction sum

Find  $2\frac{3}{4} + 1\frac{5}{6}$ .

### Exercise 11 - Subtract with regrouping

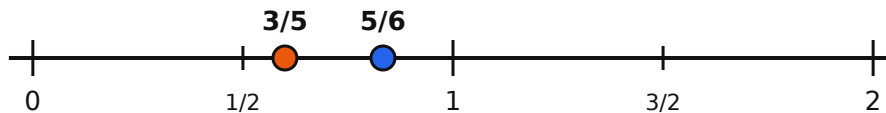
Find  $4\frac{1}{3} - 1\frac{1}{2}$ .

### Exercise 12 - Harder regrouping

Find  $5\frac{1}{4} - 2\frac{2}{3}$ .

### Exercise 13 - Estimate, then add

First estimate  $\frac{5}{8} + \frac{3}{5}$  using the benchmarks 0,  $\frac{1}{2}$ , and 1. Then find the exact sum.



Benchmarks 0,  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , 2.

### Exercise 14 - Missing number

Find the missing number:  $? + \frac{2}{5} = \frac{7}{10}$ .

### Exercise 15 - Pizza for two meals

Maya ate  $\frac{1}{4}$  of a pizza at lunch and  $\frac{3}{8}$  of the same pizza at dinner. What fraction of the pizza did she eat in all?



Maya ate  $\frac{1}{4}$  of a pizza at lunch and  $\frac{3}{8}$  at dinner.

### Exercise 16 - Weekend hike

Jamal hiked  $2\frac{1}{2}$  miles on Saturday and  $1\frac{3}{4}$  miles on Sunday. How many miles did he hike in all?

### Exercise 17 - Ribbon left over

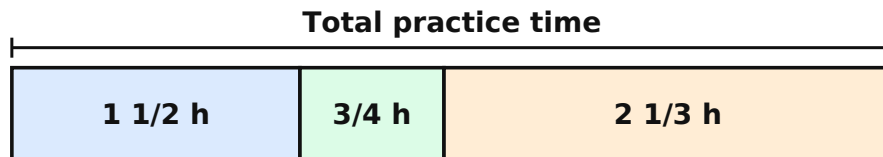
Sofia has  $3\frac{2}{3}$  yards of ribbon. She uses  $1\frac{3}{4}$  yards for a gift. How much ribbon is left?

### Exercise 18 - Will it fit?

Ethan puts  $\frac{2}{3}$  cup of flour and  $\frac{3}{4}$  cup of sugar into a bowl that holds 2 cups. Does everything fit? How much room is left?

### Exercise 19 - Practice time

Priya's Little League team practiced  $1\frac{1}{2}$  hours on Monday,  $\frac{3}{4}$  hour on Tuesday, and  $2\frac{1}{3}$  hours on Thursday. Find the total practice time. How much more than 4 hours is that?



Little League practice times.

### Exercise 20 - Apple pie and sauce

Diego has  $5\frac{1}{2}$  pounds of apples. He uses  $2\frac{1}{4}$  pounds for a pie and  $1\frac{5}{6}$  pounds for applesauce. How many pounds of apples are left?