

Adding and Subtracting Fractions: math practice, Grade 4 – download the PDF

21 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Unit fractions

★ ★ ★

- a) Write $\frac{5}{8}$ as a sum of unit fractions.
- b) Write $\frac{5}{8}$ as the sum of two fractions in two different ways.

2 Adding like fractions

★ ★ ★

Add.

- a) $\frac{3}{10} + \frac{4}{10}$ b) $\frac{2}{9} + \frac{5}{9}$ c) $\frac{1}{6} + \frac{4}{6}$ d) $\frac{5}{12} + \frac{3}{12}$

3 Subtracting like fractions

★ ★ ★

Subtract.

- a) $\frac{7}{8} - \frac{3}{8}$ b) $\frac{9}{10} - \frac{6}{10}$ c) $\frac{5}{6} - \frac{1}{6}$ d) $\frac{11}{12} - \frac{4}{12}$

4 Improper fractions to mixed numbers



Write each fraction as a mixed number.

a) $\frac{7}{4}$ b) $\frac{11}{5}$ c) $\frac{9}{2}$ d) $\frac{10}{3}$

5 Mixed numbers to improper fractions



Write each mixed number as an improper fraction.

a) $1\frac{2}{3}$ b) $2\frac{1}{4}$ c) $3\frac{3}{5}$ d) $2\frac{5}{6}$

6 Pizza party



Maya ate $\frac{2}{8}$ of a pizza and Ben ate $\frac{3}{8}$ of the same pizza.

- a) What fraction of the pizza did they eat in all?
b) What fraction of the pizza is left?

7 True or false?



Say whether each statement is true or false. Justify your answer.

a) $\frac{3}{5} + \frac{2}{5} = \frac{5}{10}$
b) $\frac{4}{7} = \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$
c) $\frac{6}{6} = 1$

8 Missing numbers



Find the missing number.

a) $\frac{?}{9} + \frac{4}{9} = \frac{8}{9}$ b) $\frac{11}{12} - \frac{?}{12} = \frac{5}{12}$ c) $\frac{3}{7} + \frac{?}{7} = 1$ d) $1 - \frac{3}{8} = \frac{?}{8}$

9

Adding mixed numbers

Add.

a) $2\frac{1}{5} + 1\frac{2}{5}$ b) $3\frac{3}{8} + 2\frac{4}{8}$ c) $1\frac{5}{6} + 2\frac{3}{6}$ d) $4\frac{7}{10} + 1\frac{6}{10}$

10

Subtracting mixed numbers

Subtract.

a) $5\frac{6}{7} - 2\frac{2}{7}$ b) $4\frac{5}{9} - 1\frac{3}{9}$ c) $6 - 2\frac{1}{4}$ d) $5\frac{1}{5} - 2\frac{3}{5}$

11

Whole number times a fraction

Multiply. Write each answer as a fraction and, when possible, as a mixed number or a whole number.

a) $3 \times \frac{2}{5}$ b) $4 \times \frac{3}{8}$ c) $5 \times \frac{1}{6}$ d) $6 \times \frac{2}{3}$

12

Flour for cookies

One batch of cookies needs $\frac{3}{4}$ cup of flour. How much flour is needed for 3 batches?

13

A day on the trail

A hiker walked $2\frac{3}{10}$ miles in the morning and $1\frac{8}{10}$ miles in the afternoon. How many miles did the hiker walk that day?

14 Find the mistake

Sam wrote $\frac{4}{9} + \frac{3}{9} = \frac{7}{18}$.

- a) Explain Sam's mistake.
- b) Give the correct answer.

15 Many ways to break up a number

- a) Write $2\frac{3}{4}$ as the sum of a whole number and a fraction.
- b) Write $2\frac{3}{4}$ as a sum of two fractions that both have denominator 4, in two different ways.
- c) Write $2\frac{3}{4}$ as a whole number times $\frac{1}{4}$.

16 The rain barrel

A rain barrel held $8\frac{1}{4}$ gallons. Dad used $2\frac{3}{4}$ gallons on the flowers and $1\frac{2}{4}$ gallons to wash the car.

- a) How many gallons did he use in all?
- b) How many gallons are left in the barrel?

17 Shelves

A carpenter builds 7 shelves. Each shelf needs a board that is $\frac{3}{4}$ yard long. The carpenter has a 6-yard plank.

- a) How many yards of board are needed?
- b) Is the plank long enough? How much is left over or missing?

18 Who ran farther?

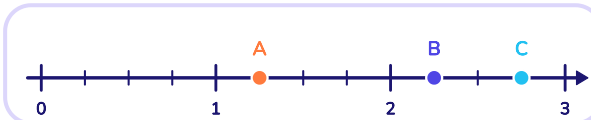
★★★

Dana ran $\frac{3}{5}$ mile every day for 4 days. Eli ran $2\frac{4}{5}$ miles during the same 4 days.

Who ran farther, and by how much?

19 Reading a number line

★★★



The points A, B and C are marked on the number line.

- Read the position of each point as a mixed number and as an improper fraction.
- How far is A from B? How far is B from C?

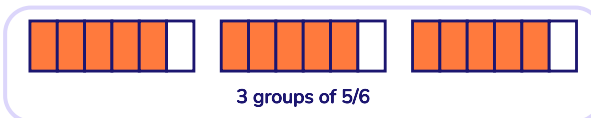
20 Mystery number

★★★

I am a mixed number between 3 and 4. My fraction part has denominator 6. If you subtract $1\frac{5}{6}$ from me, you get $1\frac{4}{6}$. What number am I?

21 Is it 15 eighteenths?

★★★



Kai says that $3 \times \frac{5}{6} = \frac{15}{18}$.

- Explain why Kai is wrong, using the picture.
- Find the correct answer as an improper fraction and as a mixed number.



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