

Fraction Trail

Add and subtract equal-size fractional parts.

GRADE 4 • 4.NF.B.3d

CCSS.Math.Content.4.NF.B.3d "Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem."

NAME _____

DATE _____

SAME-SIZE PARTS

When fractions name parts of the same whole and have the same denominator, the parts are the same size. Add or subtract the numerators, keep the denominator, and simplify the answer if possible.

WORKED EXAMPLE

Find $\frac{3}{11} + \frac{5}{11}$.

1. The denominators match, so the parts are the same size.
2. Add the numerators: $3 + 5 = 8$.
3. Keep the denominator: $\frac{3}{11} + \frac{5}{11} = \frac{8}{11}$.

Answer: $\frac{8}{11}$

PRACTICE 6 problems

1 Find $\frac{2}{7} + \frac{4}{7}$.

ANSWER _____

2 Find $\frac{1}{8} + \frac{6}{8}$.

ANSWER _____

3 Find $\frac{8}{12} - \frac{1}{12}$.

ANSWER _____

4 Find $\frac{6}{9} + \frac{1}{9}$.

ANSWER _____

5 Find $\frac{7}{10} - \frac{2}{10}$. Write the answer in simplest form.

ANSWER _____

6 Find $\frac{4}{8} - \frac{2}{8}$. Write the answer in simplest form.

ANSWER _____

APPLY IT Show your work

- 1** At art club, Amina fills $\frac{4}{7}$ of a poster with comic drawings and $\frac{2}{7}$ with title letters. What fraction of the poster is filled?

WORK SPACE

ANSWER _____

- 2** A tablet has $\frac{8}{12}$ of its battery charge left. After playing a game, it uses $\frac{2}{12}$ of the full battery charge. What fraction of the full battery charge remains? Write the answer in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A class has finished $\frac{8}{14}$ of a coding project. Then the class finishes $\frac{4}{14}$ more. What fraction of the project is still unfinished? Show an equation and write the answer in simplest form.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find $2/7 + 4/7$.	$6/7$
2	Find $1/8 + 6/8$.	$7/8$
3	Find $8/12 - 1/12$.	$7/12$
4	Find $6/9 + 1/9$.	$7/9$
5	Find $7/10 - 2/10$. Write the answer in simplest form.	$1/2$
6	Find $4/8 - 2/8$. Write the answer in simplest form.	$1/4$

PART 2 • APPLY IT

1. **$6/7$** Add the filled parts because both fractions name parts of the same poster. $4/7 + 2/7 = 6/7$.
2. **$1/2$** Subtract the battery charge used from the charge that was left. $8/12 - 2/12 = 6/12 = 1/2$.

CHALLENGE

$1/7$; $14/14 - (8/14 + 4/14) = 2/14 = 1/7$

Accept correct equivalent fractions, such as $6/12$ for $1/2$ or $2/8$ for $1/4$, when simplification is not required. For the challenge, accept any correct equation that shows the completed parts are combined before finding the unfinished part.