

Tenths to Hundredths

Rename, then add fractions with 10 and 100.

GRADE 4 • NY-4.NF.5

NY-4.NF.5 "Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100."

NAME _____

DATE _____

MAKE LIKE DENOMINATORS

To rename tenths as hundredths, multiply both the numerator and denominator by 10. Then both fractions have denominator 100, so add the numerators and keep the denominator 100.

WORKED EXAMPLE

Find $6/10 + 23/100$.

1. Rename $6/10$ with a denominator of 100.
2. $6/10 = 60/100$
3. Add: $60/100 + 23/100 = 83/100$

Answer: $83/100$

PRACTICE 6 problems

- 1** Write $3/10$ as an equivalent fraction with denominator 100.

ANSWER _____

- 2** Write $8/10$ as an equivalent fraction with denominator 100.

ANSWER _____

- 3** Find $2/10 + 45/100$.

ANSWER _____

- 4** Find $7/10 + 12/100$.

ANSWER _____

- 5** Find $1/10 + 58/100$.

ANSWER _____

- 6** Find $9/10 + 5/100$.

ANSWER _____

APPLY IT Show your work

- 1** In a video game, Jalen completes $\frac{4}{10}$ of a quest in the morning. Later, he completes $\frac{31}{100}$ more of the quest. What fraction of the quest does Jalen complete altogether?

WORK SPACE

ANSWER _____

- 2** Amara completes $\frac{5}{10}$ of her digital fitness goal before lunch and $\frac{24}{100}$ of the goal after lunch. What fraction of her goal does she complete that day?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mina says that $\frac{3}{10} + \frac{49}{100} = \frac{52}{110}$ because she added the numerators and denominators. Is Mina correct? Explain how to find the correct sum.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Write $\frac{3}{10}$ as an equivalent fraction with denominator 100.	$\frac{30}{100}$
2	Write $\frac{8}{10}$ as an equivalent fraction with denominator 100.	$\frac{80}{100}$
3	Find $\frac{2}{10} + \frac{45}{100}$.	$\frac{65}{100}$
4	Find $\frac{7}{10} + \frac{12}{100}$.	$\frac{82}{100}$
5	Find $\frac{1}{10} + \frac{58}{100}$.	$\frac{68}{100}$
6	Find $\frac{9}{10} + \frac{5}{100}$.	$\frac{95}{100}$

PART 2 • APPLY IT

1. **$\frac{71}{100}$** Rename $\frac{4}{10}$ as $\frac{40}{100}$. Add $\frac{40}{100} + \frac{31}{100}$ to get $\frac{71}{100}$.
2. **$\frac{74}{100}$** Rename $\frac{5}{10}$ as $\frac{50}{100}$. Add $\frac{50}{100} + \frac{24}{100}$ to get $\frac{74}{100}$.

CHALLENGE

Mina is not correct. Rename $\frac{3}{10}$ as $\frac{30}{100}$, then add $\frac{30}{100} + \frac{49}{100} = \frac{79}{100}$.

Accept correct equivalent fractions, but students should show tenths renamed with denominator 100 before adding. For the challenge, accept any clear explanation that denominators must match before the numerators are added.